



189

CRPT

Bot

Plowman

022

TIMOTHY PLOWMAN  
BOTANY DEPARTMENT  
FIELD MUSEUM OF NATURAL HISTORY  
CHICAGO, ILLINOIS 60605

11769  
10967  
802

*Tapeinoschilus duzhenae*  
Bromels. → Harry Luther SEL

Palms of Peru → Schunke.

Strong bps  
wolf-Horowski book

1000 Labels

43  
+ 33

Florida 67 H S = 143  
162 sheets + 51 = 213  
286

Peru 802 #'s  
3562 sheets

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#10903

One measure of my distractedness is that it wasn't until today that I was even able to come up with the one identification that I knew I knew--or had known, anyway. The Kaffir Lime is Citrus hystrix, also known as the "Papeda." The Thai name, which sounds like "mahgud," is probably to be spelled "makrut." The Burmese name is said to be "shauk-nu" or "shauk-waing;" the Cambodian, "krauch soeuch;" and the Indonesian "jeruk purut" or "jeruk sambal." I draw this information from Alan Davidson, Seafood of South-East Asia (Singapore: Federal Publications, 1977), p. 206. An excellent book, by the way, with nice illustrations of the fish or other seafoods (some in color), illustrated discussions of the uncommon cooking ingredients, and then a tempting selection of recipes. Note from Elling Eide, 12 June 1982.



11551 & 11553.

vs. *D. swallenianz*

Collector: T. Plowman

Determination:

*Digitaria insularis* (L.) Mez ex  
E. Kman

Determined by:

R. 883

This specimen has been sent as a gift for  
determination. When determined, please  
return this slip to Department of Botany,  
Field Museum of Natural History, Chicago,  
Illinois 60605-2496, U. S. A.



Plow

92  
115

Collector: T. Plowman

Determination:

*Panicum parvifolium*  
Determined by: Lam.  
pup 83

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PA. *P. oligosanthes* 1968 *P. polygonatum* Schrad.  
var. *scribnerianum*

Collector: T. Plowman

Determination:

*Panicum scribnerianum*

Determined by:

Nash  
ju 183

This specimen has been sent as a gift for  
determination. When determined, please  
return this slip to Department of Botany,  
Field Museum of Natural History, Chicago,  
Illinois 60605-2496, U. S. A.



Peru

Collector: T. Plowman

Determination:

*Paspalum candidum* (H. & B.)  
Determined by: Kunth  
RHP83

This specimen has been sent as a gift for determination. When determined, please return this slip to Department of Botany, Field Museum of Natural History, Chicago, Illinois 60605-2496, U. S. A.



NOV 15 1981

10900

FLORIDA: Sarasota County.

15 NOV 1981. Sarasota.

"Indiznola". Sea level.

Coll. T. Plowman, E. Eide and J. Halton

✓ 10900. Fortunella hindsii (Champ.) Swing

(1) "shan chieh"

F Cult. Spring shrub 2 m. tall. Frs.  
yellow.

✓ 10901. Citrus medica L.

(3) "common citron"

F Cult. Open branched shrub 1.5 m. tall.

Fr. BH  
NY Frs. orange at maturity, rare  
form, very aromatic. Flesh pale yellow.

✓ 10902. Microcitrus sp.

(2) Cult. shrub in pot. Fls. white.

F fruit green

NY From New Guinea

← 10903. Citrus hystrix DC. "makrut"

(3) n.v. kaffir lime "makrut" (Thai)

F Cult. tree 4 m. tall. Sterile. Lvs.  
BH used in soups for flavoring.  
NY

Dec 15 1981

- ✓ 10904. Citrus unshiu Marc. x Fortunella crassifolia Swing.  
(2) n. nippon kumquat x satsuma kumquat

F  
BH

Cult. treelet 3 m. tall. Frs.  
yellow-green, juice very sour.  
Flesh orange.

- ✓ 10905. Citrus deliciosa Tenore

(3) "willow<sup>leaf</sup> tangerine"

BH  
F

Willow treelet 3.5 m. tall.

Frs. greenish orange, fleshy  
orange, sweet.

- ✓ 10906. Fortunella margarita (Lour.) Swing. x F. japonica (Thunb.) Swin.  
(2) n.v. meiwa "kumquat"

F  
BH

Cult. treelet 3 m. tall.  
Frs. green, turning orange.  
Flesh pale yellow. Seeds green  
within.

→ Citrus limon (L.) Burm.-f. cv. 'Meyer'

- ✓ 10907. Citrus limon (L.) Burm.-f. x C. sinensis (L.) Osbeck

(3) Meyer's Lemon

BH

Cult. tree 3 m. tall.

Frs. greenish yellow. Flesh  
pale yellow, sour

F  
NY

NOV 15 1981

- ✓ 10908. Fortunella margarita (Lour.) Swing.  
BH (2) n.v. magami kumquat  
F Cult. tree 3.5 m. tall. Fruits  
orange; flesh very pale yellow.  
→ ~~X~~ Citrofortunella mitis (Blanco) J. Ingram + H.E. Moore
- ✓ 10909. Citrus madurensis Loureiro  
(3) n.v. calamondin  
F Cult. tree 2.5 m. tall. Fruits  
BH orange. Flesh orange, sour.  
RB
- ✓ 10910. Citrus sinensis (L.) Osbeck  
BH (2) n.v. Valencia orange  
F Cult. tree 4 m. tall. Fruits  
yellowish green. Flesh orangy  
yellow, somewhat sour.
- ✓ 10911. Citrus x paradis Macfad. (C. maxima x C. sinensis)  
(3) Royal Grapefruit  
F Cult. tree 4 m. tall. Fruit yellow.  
Flesh pale dirty yellow, Sweet.
- ✓ 10912. Citrus sinensis (L.) Osbeck  
(1) "Navel orange"  
F Cult. tree 4.5 m. tall. Fruits  
greenish yellow. Flesh pale  
orange.

✓ 10913. Citrus sinensis (L.) Osbeck cv. 'Hamlin'

BH (4) n.v. Hamlin Orange

F NY Cult. Tree 5 m. tall. Fruits orange. Flesh orange, very Sweet.

→ Citrus x limonia Osbeck

✓ 10914. Citrus<sup>f</sup> reticulata var. austera Swing.

BH (3) n.v. "Rangpur lime"

F NY Cult. tree 3 m. tall. Fruits orangy green. Flesh orange, very sour. det.

✓ 10915 Citrus x nobilis Loureiro cv. 'King'

BH (2) n.v. King orange

F (C. reticulata x C. sinensis) Cult. tree 4 m. tall. Fruits dark green. Fleshy orange, sweet.

✓ 10916. Citrus

BH (2) n.v. "Tien chieh mandarin"

F Cult. Tree 3 m. tall. Fruits orange. Flesh orange, rather sour.

✓ 10917. Citrus aurantiifolia (Christm.) Swingle

BH (2) n.v. "Key lime"

F Cult. tree 2.5 m. Fruits green, Fleshy pale green, very sour.



#10916

The "Tien chieh mandarin" was purchased under that name about ten years ago in the nursery department of Grant's here in Sarasota. That's the only time I ever saw it for sale, and so far as I know it is not really in the trade. I suspect, however, that the citrus experiment station at Lake Garfield, Florida--or perhaps the one at Riverside, California--might be able to help with the identification. The last item I had hoped to find is a master list of citrus varieties--recorded, I think, by the folks at Riverside--on which, as I now recall, I once saw a varietal name that was, at least, pretty close to "Tien chieh." I might caution you, however, that "Tien chieh" could be nothing more than an attempt to transcribe the Chinese for "sweet citrus," and as that, if it is that, it could have a rather wide and loose range of applications. The tree does, under our conditions at any rate, have some distinguishing characteristics that may eventually help you with the identification:

1. The tree itself is remarkably small, rounded, and of a weeping habit--a bit reminiscent of the China mandarin (= Willowleaf, = Willow tangerine?, = Citrus deliciosa?), but the branches are more pendulous.
2. Most distinguishing is its characteristic of bearing fruit in rather large clusters--tight clusters--and in this it resembles no other orange or mandarin that we grow.
3. It should perhaps be considered more an ornamental than anything else--the fruit is small and not very wonderful. In flavor it is not much better than the Cleopatra; in size and color and peel characteristics it is perhaps midway between the Cleopatra and the China mandarin. The fruit is by no means sour, but it is not so sweet as to bolster one's confidence that "tien" does transcribe the Chinese for "sweet."

Note from Elling Eide 12 June 1982

#10916

10916

For the "preserving orange," your guess is probably better than mine. Someone who was out here once--probably the County Agent--thought it might be the same thing as the "Wilson shell," but I have never seen anything on the "Wilson shell," either, so that doesn't get us anywhere. All I can tell you is that, to the best of my recollection, my parents got their original budwood from friends (or friends of friends) over in Arcadia. The variety may well have originated with those people, and the name "preserving orange," itself, either with them or with my parents.

Note from Elling Eide, 12 June 1982.

10918

NOV 15 1961

✓ 10918. Citrus sp

? (3) n.v. preserving orange.

F Cult. tree 2 m. tall.

Fruit greenish orange. Fleeshy  
creamy white, 'inealy'.

✓ 10919. Citrus reticulata Blanco

(3) n.v. Satsuma mandarin

BH F NY Cult. tree 3.5 m. tall.

Fruits yellowish green. Flesh  
orange, sweet.

✓ 10920. Citrus medica L. var. sarcodactylis (Noot.)

BH (2) "Hand of Buddha Citron" Swingle

F Cult. treelet 2.5 m. tall.

Fruits pale green, white within.

✓ 10921. Citrus reticulata Blanco cv. 'Cleopatra'

(4) Cleopatra Mandarin (a common  
rootstock)

F Cult. tree 4 m. tall. Fruit  
green, flesh orange.

Nov 15 1981

- ✓ 10922. Citrus aurantiifolia (Christm.) Swingle cv. 'Tahiti'  
(2) n. v. persian or Tahiti lime  
F Cult. tree 4 m. tall. Fruit  
green. Flesh pale green, sour.

- ✓ 10923. Citrus x nobilis Loureiro cv. 'Temple'  
(3) 4 n. v. Temple Orange.  
F no Cult. Tree 4 m. tall. Fruit  
OH orange green. Flesh pale  
NY orange, sour.  
FLAS

- ✓ 10924. Cithorexylon sp. (?) Verb.  
(14) Cult. tree let 2.5 m. tall.  
F Grown from seed collected  
at Pebas, Dept. Loreto,  
Peru. Plourmen et al. # 7314.

- ✓ 10925. Citrus maxima (Burm.) Merrill  
(4) n. v. pummelo  
F-2 Cult. tree 5 m. tall. Fruits  
BH yellowish with dark green dots.

7

NOV 17 1981

Selby Botanical gardens. 17 NOV 81.

✓ 10926 Dracontium ornatum

(3)

F-3

Cultivated tuberous herb 2 m. tall. Petiole rough with small spiny excrescences, mottled with a snake-like pattern. Blade ternate, divided. Infl. 1.2 m. tall. Petiole mottled. Spathe erect, navicular, abaxially dark purplish brown, adaxially dirty cream, with dark red purple towards base. Spadix dark purple-brown.

Tuber collected in the wild at Centinela, Prov. Pichincha, Ecuador. Selby Acc. # 78-2173.

✓ 10927. Calzthea ecuadoriana Kennedy

Morant.

(1)

det. H. Kennedy 1986.

F

Cult. herb. Petiole, pulvinus + leaf underside deep red-purple. Leaf dark velvety green above with central yellow green stripe.

SEL 78-1226. Limoncocha.

Madison et al. #5480.

NOV 17 1981

10928. Calathea cf. varians Koern.

(1)

F

Cult. herb. Petiole <sup>purple</sup> brown with  
light tan hairs. Pulvinus reddish  
Leaf underside red-purple, shiny,  
leaf shiny, dark green above.  
SEL 80-570.

Plowman 10061 F

Brazil; Bahia: Itacaré.

10929. Calathea contrafenestra Kennedy

(1) FROM TYPE PLANT

F

Cult. herb. Petiole red-purple.  
Pulvinus greenish yellow. Leaf  
blade shiny above, yellow-green  
with dark broad scalariform bands,  
dark green at margin; undersides  
dull, pale greenish green with red-purple  
scalariform banding, red-purple  
1 cm. band at margin, the margin itself olive  
green (1 mm wide). Peduncle pur-  
plish brown. Bracts light green.  
Sepals pale green. Fls. white.  
SEL. 78-1134

Madison et al. 5409.

Ecuador; Napo: Limoncocha



Cultivated plants:

NOV 19 1981

Miami, Florida.

19 NOV 1981. Coll. T. Plowman

Gram.

✓ 10930. Dizendrolyra tationae Soderstrom

(1)

F

FTG

81-698.

Cult. herb. Leaves red-purple beneath. Grown from cuttings of Plowman 10114A: Brazil: State of Rio de Janeiro. ~~Jacarepaguá~~ Jacarepaguá. Vergeem Grande. 21 Apr. 1980.

✓ 10931. Raddia brasiliensis Bertol.

Gram

(1)

F

luc FTG

81-697.

Cult. clumped caespitose herb. Grown from Plowman 10174G: Brazil: State of Rio de Janeiro: Distrito of Jardim Botânico Horto Florestal. 25 Apr 1980.

✓ 10932. Erythroxylum fimbriatum Peyr.

(4)

F

NY

MO

WAG

Cult. shrub 1 m. tall. Lvs. medium green, somewhat shiny above, dull pale green beneath. Margin undulate. Grown from Plowman <sup>+ Ramirez</sup> 7573: Peru: Dept. Huánuco. Tingo Maria, 5 July 1978.

sent to Lyon.

NOV 19 1981

✓ 10933. Erythroxylum ligustrinum DC.

- (1) Cult. chlorotic shrub 0.3 m. tall.  
F grown from Plowman 7726: Venezuela  
~~by~~ Territorio Fed. Amazonas.

"El Tobogon de la Selva", 35 ~~km~~ S. of Puerto  
Ayacacho. 21 Feb. 1979. → Lyon Arb.  
det. T. Plowman 1987.

✓ 10934. Erythroxylum coca Lam. var. ipadu Plowman

- (2) Cult. slender erect shrub 2 m.  
F tall. Young fruits green  
WAG grown from cuttings of Plowman et

al. 6663. (clonotype). Peru: Dept.  
Loreto. Prov. Maynas. Rio Ampiyacu.  
Pebas.

✓ 10935. Erythroxylum cuneinatum Peyr.

- (1) Cult. shrub 0.4 m. tall.

F grown from young plants of Plowman  
10174. Brazil: State of Rio de Janeiro.

Lyon City of Rio de Janeiro. Horto  
Florestal. ~~set~~!

✓ 10936. Erythroxylum cumenense HBK.

- (1) Cult. shrub 0.4 m. tall.

F grown from young plant of Plowman  
7673A. Venezuela: Distrito Federal.  
Caracas. Jardín Botánico.

NOV 19 1981

10937. Erythroxylum cuspidifolium Mart.  
~~squamatum Sw.~~

live: (1)  
Lyon

F

~~Cult. shrub 0.3 m. Grown from  
young plant of Plowman 10062 et al. Brazil  
Bahia, Itacaré. 12 Apr 1980.  
Sent to Lyon. ex Plowman 10172.~~

10938. Erythroxylum magnoliifolium St. Hil.

(3)  
fl(A)

F  
NY  
A-JP

Cult. shrub 0.5 m. tall.  
Grown from young plant of Plowman  
10101. Brazil: Rio de Janeiro. Mun.  
Jacarepaguá. Vargem grande. 21 Apr. 1980.

10939. Brumfelsia americana L.

(3)

F  
BH  
K  
A-JP

x B. lactea Kr. + Urb.

Cult. shrub 2 m. tall with long  
virgate arching branches. Corolla  
white fading to creamy yellow.

10940. Erythroxylum shaton Peyr.

(1)

F

Cult. shrub 1.5 m. tall. Fls.  
cream. Grown from cuttings of  
Plowman 6046. Peru: Dept. Ica  
Martín. km. 24 from Tarapoto to  
Juzenjuí. 5 May 1976.

NOV 19 1981

10941. Erythroxylum coca Lam. var. coca  
(3)  
(F)

F  
QCA  
HUA  
Cult. shrub 1 m. tall. Fls.  
creamy white. Grown in pot.  
Ex 4 Fil.

10942. Erythroxylum coca Lam. var. coca  
(2)  
(F)

F  
COL  
Cult shrub 1.0 m. tall.  
Buds cream. Lvs. chlorotic  
~~tange~~ (Planted in ground).  
Ex 4 Fil.

10943. Erythroxylum pulchrum St. Hil.

(2)  
Cult shrub 1 m. tall.  
Lvs shiny both sides.

F  
A-JP  
Grown from young plants of  
Plowman 10173. Brazil: Rio de  
Janeiro. Rio de Janeiro. Horto  
Florestal. 25 Apr. 1980.

10944. Erythroxylum cuspidifolium Mart.

(1)  
Cult. shrub 0.8 m. tall.

F  
Grown from cutting of Plowman  
10172. Brazil: State of Rio de Janeiro.  
? { Mun. Jacarepaguá. Veragem Grande.  
25 Apr 1980.

10945. Erythroxylum undulatum Plowman  
(2)

F  
NY

Cult. shrub 1 m. tall. Branches long, erect. Lvs. shiny both sides, margin undulate. Grown from such plant of Plowman 7667A.

Venezuela: Distrito Federal.

Cereces. Instituto Botánico.  
5 feb 1979. =

10946. Diplopterys cabrerana (Cuatr.) Gates.

(1) Cult. scandent shrub 1 m. tall.

F

Grown from cutting of Plowman 6040.  
Peru: Dept. San Martín. Tzupoto.

10947. Brumfelsia americana L. x

(1) B. densifolia Kr. + Urb.

F

Cult. shrub, 30 cm. tall.

Hybrid. Seeds planted Oct. 30, 1980.

10948. Erythroxylum [cf. havanense Jacq.]

(1) Cult. shrub 30 cm. tall.

F

Grown from cutting of Plowman —  
Venezuela: Distrito Federal. Cereces.  
Instituto Botánico.

Nov 19, 1981

✓ 10949. Erythroxylum cumenense HBK.

(2) Cult. shrub 60 cm. tall.

F  
NY Lvs. dark green above, pale green  
beneath; damaged somewhat  
at 40°F. Grown from young  
plant of Plowman 7810.  
Venezuela: Sucre. Cumaná. 3 Mar 1979.

✓ 10950. Erythroxylum cumenense HBK.

(2) Cult. shrub 30 cm. tall.

F  
MO ~~to~~ Grown from cuttings of  
Plowman 7810? Venezuela: Sucre  
Cumaná. 3 Mar 1979.

✓ 10951. Erythroxylum confusum Britt.

(3)

f. tot Cult erect shrub 2 m. tall.

F  
A-JP Lvs. dull medium green above,  
very pale dull green beneath.

BH Grown from <sup>seeds</sup> young plant of  
Plowman —. Venezuela:  
Distrito Federal. Caracas.

U Fairchild gardens #63-251

Nov 19 1951

- ✓ 10952. Erythroxylum ulei O. E. Schulz.  
(4)

F  
NY  
A-JP  
WAG

Cult shrub 1 m. tall.  
Sterile. grown from young plants  
of Plourmon + Schumbe 5808.  
Peru: San Martín. Tocache. Miramar.  
(or from hybrids I made?)

- ✓ 10953. Erythroxylum raimondii O. E. Schulz

F  
NY

(2)

Cult. shrub 1 m. tall.  
grown from seedlings of Plourmon  
+ Davis 4847. Peru: Cuzco.  
Echarate.

- ✓ 10954. Brunfelsia <sup>undulata 3350</sup> ~~picata Urb.~~ x

(2)

B. jamaicensis 3361.  
(or vice versa).

F-2  
BH

Cult. hybrid shrub 4.0 m.  
tall with erect virgate branches.  
Lvs. coriaceous, shiny dark green  
above; pale green beneath,  
somewhat shiny. Fruits coppery  
green, shiny.

By greenhouse door  
AF 78-12

Cross made Jul 1976.

First Bloomed Feb-Mar 1980

NOV 19 1981

✓ 10955. Broussaisia latifolia Benth.

(5) Cult. shrub 0.6 m. tall in  
pot. Corolla pale violet fading  
to white. Grown from cutting  
of Plowman 3353

Brazil: Rio de Janeiro. Restinga  
de Jacaré paguê.

F  
MO  
NY  
CORD  
BHT

✓ 10956. Erythroxylum ulei O.E. Schulz

(3) Cult. shrub 1.5 m. tall.  
Sterile. Grown from cutting  
of Plowman et al. 4184. Colombia:

~~Carolina~~ Tolima: entre Melgar  
& El Carmen de Apicalá. 19 Aug 1974.

F  
MO  
COL

✓ 10957. Erythroxylum haughtii Gentner.

(2) Cult. shrub 1.5 m. tall.

Grown from cutting of Plowman et al.  
4301. Colombia: Cauca. El Boreto.  
Mojarras. 27 Oct 1974.

F  
NY

✓ 10958. Erythroxylum williamsii Standley ex Plowman

(2) Cult. shrub 1 m. tall. Grown from young  
plant of Plowman 7756. Venezuela:

Terr. Fed. Amazonas. Puerto Ayacucho.

F  
NY



Dec 20 1981

20 nov 1981. The Kampong. Miami.  
Coll. T. Plowman.

✓ 10959. Epiphyllum

(1) cult. Epiphytic cactus with scandent  
F branches. Fls. tube cream, petals  
white.

✓ 10960. Erythroxylum novogranatense (Morris)  
(5) Hieron. var. novogranatense.

F  
CEL  
GB  
WAG  
AAU

Cult. Shrub 3 m. tall, densely  
branched. Fls. cream. Ripe  
fruits red. Very abundant  
flowering.

✓ 10961. Cesimiroa edulis L.

Rutac.

(1) Cult. tree 8 m. tall. Fls.  
F cream.

n.v. "white sepote"

Dec 21 1981

21 nov. 1981. Miami. Fairchild Tropical Garden

✓ 10962. Erythroxylum confusum Britt.

(7) Erect shrub with multiple  
F stems 4-5 m. tall. Fruits green  
turning bright red.

seeds.  
fotos  
VAG  
MO  
BH  
K  
NY  
G  
VEN

Dec 21 1981

Miami. Fernandez.

✓ 10963. Cryptochloa capillata (Nees)

(4)

Soderstrom comb. nov.

F-2

(Olyra capillata Trin.)

us

Cult. caespitose herb.

MO

Young leaves purplish.

Grown from rhizomes

collected at Brazil: Rio de

Jeneiro. Horto Florestal.

Plowman 10174 J. det. T. Soderstrom  
1982.

✓ 10964. Brumfelsia ~~jam-pli~~ - und?

(2)

tall virgate shrub 3 m. tall.

F

MO

[Planted in yard, west wall by  
back door]

Fls. solitary, tube pale green.

Limb white, fading to ~~pink~~

yellow. (= 12055)

✓ 10965. Brumfelsia lactea Kr. + Urb.

(3)

Cult. shrub 1.5 m. tall.

F

MO

CORD

~~Fube~~ Fls. very fragrant,  
tube very pale violet to whitish.  
Limb pure white, turning pale  
yellow.

[by street]

10966. Brouffelia americana L. x  
(3) B. lactea Kr. + Urb (3378).  
Cult. shrub 2.3 m. tall.  
Corolla tube pale green. Limb  
pure white <sup>some</sup> turning pale yellow.  
at front door right.  
AF # 78-18.

Peru: Dept. Lima. ~~Peru~~ Lima.  
Miraflores, 24 Nov 1981.  
Coll. T. Plowman NOV 24 1981

10967. Tetrastigma voinierianum (Baltet)  
~~Cissac~~ Pierre ex Gagnep. Vitac.  
F (1) Coarse fleshy vine. Cultivated.  
Sterile. det. T. Plowman

10968. Morus alba L. Morac.  
USM (3) Cult. street tree 6 m. tall.  
MO Stigmas white. Fruits reddish.

10969. Casuarina equisetifolia J.R. + G. <sup>Forst.</sup> Casuar.  
F (1) Cult. street tree 8 m. tall.  
Young fruits green.

NOV 24 1981

F 10970. Quercus robur L. Fagac.  
USM (3) Cult. street tree 8 m. tall.  
MO Young fruits green. det. R. Gereau '87  
pendula Planch. ex F. Muell.

F 10971. Harpullia arborea (Blanco) Rodrk. Sapindac.  
MO (3) Cult. street tree 8 m.  
USM tall. Fruits reddish orange,  
yellow within. Seeds shiny  
black.

F 10972. Setcreasea pallida Rose Commel.  
USM (2) Cult. creeping herb. whole  
plant <sup>leaves</sup> reddish purple. Fls. pink.

F 10973. Oxalis rubra Jt. Hil. Oxalidac.  
BH (2) Cult. tuberous herb. Fls.  
pink. Weedy.

F 10974. Eleusine indica (L.) Gaertn. Gram.  
USM (3) Weedy grass in garden.  
MO det. m. - Mar 1982.

F 10975. Apium leptophyllum (Pers.) Muell. Arg. Umbell.  
(3) Weedy annual in garden.  
USM Fls. white.  
UC  
F

F 10976. Rosa Rosac.  
(1) Cult. ornamental 1 m. tall.

Petals pink.

10977. Rosa Rosace.  
 (1) Cult. ornamental shrub 30  
 cm. tall. Fls. deep pink.
10978. Dichorisandra thyrsiflora Mikan Commel.  
 (1) Coarse cultivated herb 3 m.  
 tall. Calyx blue-violet. Petals  
 deep blue, white at base.  
 Anthers pale yellow.
10979. Brumfeloia australis Benth. Solanac.  
 (3) Cult. shrub 1 m. tall.  
 Fls. violet with white eye.  
 feeding pure white with eye.  
 Very fragrant.
10980. Erythroxylum novogranatense (Morris) Erythrox.  
 (35) Hieron. var. novogranatense  
 det. T. Plowman 1981.  
 Cult. shrub 2.5 m. tall,  
 single trunked. Leaves bright  
 yellow-green. Fls. cream,  
 faintly foetid.  
 Grown from seeds of Plowman  
 & Vaughan 5373 collected in

DSU  
LP  
COL  
CORD  
NY 16  
E

USM

F

BEON

BH

TEX

INPA

ORD

NY

MO

US

K

U

MEXU

CHAP

B

G

RNG

ENCB

CAS

BR

MA

MY

TAES

WAG

GB

COL

AAU

OSU

SGO

NOV 24 1981

Colombia. Dept. Cauca. El Bordo.  
30 Jan 1976.

10981. Solanum americanum Mill. var. <sup>americanum</sup> Solanec.

F (3) <sup>USM</sup> Weed in flower garden. 1 m.  
tall. Fls. white. det. M. Nee 1982.

10982. Galinsoga quadriradiata Ruiz + Pavon Comp.

F (3) <sup>USM</sup> ~~Weedy~~ in flower garden.  
Reys axially red, adaxially  
pink. Petioles dark red.

10983. Oxalis corniculata L. Oxalid.

F (2) Creeping weed in flower garden.  
Fls. yellow. det. P. Matekaitis 1983

10984. STELLARIA MEDIA (L.) Vill. Caryoph.

F (2) <sup>GB</sup> DET. A. CANO 1989  
Creeping delicate weed in  
gardens. Fls. white.

10985. Euphorbia tirucalli L. Euphorb.

F (1) Cult. Shrub 2 m. tall.  
Milky latex. Sterile.

NOV 24 1981

10986. Euphorbia

Euphorb.

- F (1) Annual cult. herb. Sep cloudy.  
Leaves green with dark red-purple  
in central + basal part. Fls. green.

10987. Anredera scandens L.

Buxellac?

- F (2) Cultivated twining vine.  
Sterile.

NOV 25 1981

25 Nov 81. Peru: Dept. Lima.  
Museo de Historia Natural.  
Coll. T. Plowman +

10988. Calendula officinalis L.

Compos.

- F (2) Cult. ornamental herb.  
Rays yellow. Ornamental.  
det. M.O. Dillon 1982

10989. Gerbera jamesonii Bolus ex Hook. f.

Comp.

- (1) Acaulescent cultivated herb.  
F Rays deep salmon. Disc yellow.  
Ornamental. det. M.O. Dillon 1982

10990. Physalis peruviana L.

Solanec.

- (2) Cult. herb 1.8 m. tall. Fls. yellow  
F with brown spots at center

10991. Salvia splendens R. & S.

Labiat.

- BH (2) Cult. Subshrub 1 m. tall. Calyx red  
F Corolla bright red. Ornamental.  
det. M. Nee 1982

NOV 25 1981

10992. Lantana Verb.  
F (2) Cult. shrub 1 m. tall. Fls.  
NY lavender. Ornamental.
10993. Lonicera Caprif.  
F (2) Cult. ornamental vine 3 m.  
BH tall. Corolla white, turning  
yellow with age. Fragrant.
10994. Plumbago auriculata Lam. Plumbagin.  
F (2) Cult. scandent shrub 1 m. tall.  
BH Fls. pale blue. det. T. Plowman 1982.
10995. Bromus Gramin.  
F (1) Weed in flower bed.
10996. Juncus oleraceus L. Comp.  
F (1) Weed in flower bed. Petioles red  
purple. det. M.O. Dillon 1982.
10997. Chenopodium Chenopod.  
F (1) Weed in flower bed. Fls. green.
10998. Lantana Verb.  
F (3) Cult shrub 1 m. tall, hedge plant.  
NY WAG Fls. yellow, turning deep pink.



NOV 25 1981

F 10999. Solanum granuloso-leprosum Dunal. Solanac.  
USM (2) Cult. shrub 1 m. tall. Fls. pale  
violet. Mature fruits dirty yellow.  
det. M. Nee 1982.

F 11000. Eleutherine bulbosa (Mill.) Urb. Iridac.  
fotos. (1) Cult. ornamental herb. Bulb  
deep red. Fls. pure white. Anthers yellow.  
n. v. "piri piri" = bulb used against snake bite, & by  
women after their period to prevent future conception.  
SEL 82-57

F 11001. Eupatorium uber B. L. Robinson Comp.  
US (3) Cultivated shrub 3 m. tall.  
TEX det. M. O. Dillon 1982.

F 11002. Bidens pilosa L. Comp.  
(3) Weed in flowerbeds. Rays white.  
Disc yellow. det. M. O. Dillon 1982.

F 11003. Galinsoga quadriradiata R. & P.  
US (2) Weed in flowerbed. Rays white.  
Disc yellow. det. M. O. Dillon 1982.

F 11004. Plantago major L. Plantagin.  
MO (2) Weed in flowerbed. Fruiting  
spikes deep red purple.

F 11005. Chenopodium murale L. Chenopod.  
NY (3) Low sprawling weed in flowerbed.  
U Fls. pale green.

NOV 25 1981

11006. Cheopodium umbrosioides L.

Chenopod.

F (1) nv. "paico"

Erect weedy herb in garden.  
Foliage foetid-aromatic.

11007. Brugmansia versicolor Lagerh.

Solanec.

F Mo (2) Cult. treelet 3 m. tall. Buds  
green.

Solanec.

11008. Brugmansia suaveolens (Humb. &

F K BH (3) Bonpl. ex Willd.) Bercht & Presl.  
Cultivated treelet 2.5 m. tall.  
Fls. held at oblique (ca. 45°) angle.  
Tube greenish cream. Limb deep  
salmon pink. Anthers connivent.

Jacaranda mimosifolia Don

11009. Jacaranda angustifolia HBK

Bignon.

F Mo (2) Cult. tree 8 m. tall. Fls.  
pale blue. det. A. Gearty 1982.

11010. Pilea microphylla Liebm.

Urtic.

F (1) Commonly cult. herb. Whole  
plant yellowish green. Stems ~~succulent~~  
succulent. Planted as a border.

NOV 25 1981

11011. Tripsacum andersonii Gray Gram.  
F (5) Coarse clump-forming herb 4m.  
USM tall, cultivated. Spikes purple.  
MO-2 det. G. Davidse 1985.

11012. Nicotiana tomentosa R. & P. Solanaceae  
(1) det. M. Nee 1982.  
F Cult. Treelet 3 m. tall. Corolla tube  
creamy white. Limb rose-pink.

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Museo de la Salud, Lima. 26 Nov 1981.

NOV 26 1981

Coll. T. Prowman

11013. Phaseolus lunatus L. Legum.  
n.v. "peller pintado"  
F (3) Cultivated in garden at Museo.  
USM Grown from seeds ~~collected~~ collected  
RNG from a feral plant in an abandoned  
garden at Peramonga by Fernando  
Cabieses. Apparently not cultivated  
but seeds used for food after cooking  
in ~~the~~ changes of water.  
Extensive vine 2 m. tall forming  
dense clump. Petals white turning  
yellow with age.

no alkaloids present in seeds  
det. D. McKenna May 1982.

NOV 26 1981

11014. Sanguisorba minor Scop.

Umbell

F (3)

n.v. pimpinella

USM  
Mo

Cult. herb. Infl. pale green.

Medicinal, taken for the stomach.

NOV 29 1981

29 Nov 81.

~~not~~ Peru: Dept. Lima. Lima. Miraflores.  
Bajada de Miraflores.  
Coll. T. Plowman & P.M. Rury.

F 11015. Tessaria integrifolia Ruiz + Pavón. Consp.  
USM (3) Cult. tree 3 m. tall. Fls. pink.  
BH det. M.O. Dillon 1982.

11016. Desmodium intortum (Mill.) Urb.

Legum.

F (3) Cultivated sub-erect herb  
USM in park. Petals white at base,  
GH pale violet at apex & margins.  
det. C. Niezgoda 1982.

11017. Vigna bidentata Hook.

Legum.

F (3) Suberect erect weed in moist  
USM area in park. Fls. dirty pink.  
GH det. C. Niezgoda 1982.

11018. Alternanthera pubiflora (Benth.) Kuntze Amaranth.

F (4) Cult. scandent herb. Stems  
USM and foliage deep red-purple.  
PH Infls. cream.

det. J. T. Mears 1982.

NOV 29 1981

F 11019. Ipomoea indica (Burm.f.) Merrill Convolv.  
USM (3) Extensive vine on dry sea cliffs.  
FAU Fls. magenta.

11020. Tropaeolum majus L. Tropaeolac.  
F (13) Extensive herbaceous vine in  
USM NY moist area on sea cliffs. Petals  
BH P bright red-orange, ~~dark~~ claw  
K LA yellow. Not cultivated. Escaped?  
MO GH (with 11021)  
U AGU  
S MAG

11021. Tropaeolum majus L. Tropaeolac.  
F (4) Extensive herbaceous vine  
USM on sea cliffs. Petals golden yellow  
BH with dark maroon spot at center.  
K (with 11020).

11022. Myoporum laetum Forst. Myoporac.  
F Cult.  
USM (2) Shrub 2 m. tall. Fls. white.  
det. C. Niezgoda 1983.

11023. Phyla nodiflora var. conescens (HBK.) Mold. Verb.  
F (3) Prostrate vine ~~fls.~~ on dry sea  
USM cliffs. Fls. ~~pale~~ pink. Lvs. fleshy.

11024. Phyla nodiflora var. conescens (HBK.) Mold. Verb.  
F (3) Prostrate vine on dry sea  
USM NY cliffs. Fls. pale pink.  
det. H. Moldenke 1983.

NOV 29 1981

- F 11025. Perkinsonia 2 culeata Leg.  
USM (2) Cult. armed tree 4 m. tall.  
Fls. yellow with red spot at base.
- 

11026. Godetia → Clarkia Onagr.  
F (1) Flowers sold in Mercado de  
Surquillo. Petals rose-pink, pale  
at the margins. "godetia"
- 

NOV 30 1981 PERU: Dept. Lima. Lima.

Museo de Historia Natural 30 Nov 1981.  
"Javier Prado" Av. Arenales 1256.  
Coll. T. Plowman.

11027. Dolichos lablab L. Legum.  
(3) Cult. herbaceous vine.  
BH seed Lus. dark green above, dark  
F red purple beneath. Stems, rachis  
MP and fruits red purple. Flowers  
light red-violet.

11028. Pennisetum purpureum Gram.  
F (1) Cult. grass 2.0 m. tall. Infl.  
MP yellow-green.

11029. Acolypha infesta Poepp. Euph.  
F (4) Weed in garden. Fls. green.  
4  
INPA det. M. J. Huft 1982

- F  
K  
folo (2) A. ELEGANS MAST. DET. F. GONZALEZ 1990-  
seed → Jason Weintraub, MCZ det. K. Barringer 1984  
11030. Aristolochia littoralis Parodi Arist. sch.
11031. Fumaria capreolata L. Fumar.  
F (2) Cult. vine. Fls. greenish white  
BH with apical brown spot.
11032. Acnistus arborescens (L.) Schlecht. Solan.  
F (3) Cult. tree 3 m. tall. Fls. cream.  
ORD  
MO
11033. Crinum x powellii Hort. ex Bak. cv. 'Album' Ameryll.  
F-2 (3) Cult. bulbous herb. Fls.  
K pure white. det. A. Meerow 1983.  
Ravenna  
BH  
FLAS  
(Hippastrum vittatum (L'Her.) Herb.)
11034. Ameryllis vittata L'Herit. Ameryll.  
F (5) Cult. bulbous herb. Tepals lt.  
K green at base, abaxially, whitish  
Ravenna  
FLAS at base to red at apex; adaxially white  
at base, to red at apex with central  
white stripe. Peduncle glaucous  
det. A. Meerow 1983.
11035. Euphorbia pepus L. Euphorb.  
F  
JUPA (2) Common weed. Fls. yellowish green.  
det. M.J. Huft 1982.  
(s.+c.) Schwerdt
- BH 11036. Sambucus mexicana Presl var. bipinnata Caprif.  
F-2 (4) Cult. treelet 4 m. tall. Fls. white. FR. black.  
K

NOV 7 0 1981

11037. Barnadesia caryophylla (Vell.) Blake Comp.  
F LP (2) Cult. shrub 1.5 m. tall. Fls. pink.  
det. M.O. Dillon 1982.
11038. Nicotiana paniculata L. Sol.  
(2) Viscid glandular herb.  
F NY cultivated in garden. Fls. greenish  
yellow. det. M. Nee 1982.  
→ Buddleia pseudoamericana Norman, sp. nov. ined.
11039. Buddleia americana L. det. E. Norman 1986. Legum.  
F U (2) Cult. shrub 3 m. tall. Fls. cream.  
= B. RUFESCENS WILD. EX SCHULTES & SCHULTES  
DET. E. NORMAN 1990
11040. Haplorhus peruviana Engler Anacard.  
F BH K (3) Cult. tree 9 m. tall. Old fruits  
black.
11041. Acacia macracantha H. & B. Legum.  
F K (2) Cult. tree 5 m. tall. Fls.  
yellow. det. C. Niezgodz 1982.  
L. LEUCOCEPHALA (LAM.) DE WIT SUBSP. GLABRATA (ROSE)  
S. ZARATEP.
11042. Leucaena glauca (L.) Benth. Legum.  
F K (2) Cult. tree 5 m. tall. Fls. white.  
FRS. brown. det. C. Niezgodz 1982  
PERU: Dept. Lima.  
LIMA: Jesus Maria.
11043. Solanum hispidum Pers. Solanec.  
F USM (2) Cult. coarse armed shrub 3 m. tall.  
Fls. white. Planted as ornamental.  
det. M. Nee 1982.



DEC 1 1981

DEC 1 1981

Beru: Dept. Lima. Lima. Museo  
Peruano de Ciencia de la Salud,  
Av. Grau.  
Coll. F. Plowman

1 Dec 1981

11044. Peperomia golioides HBK.

Piperaceae

- (1) Erect succulent herb, cultivated  
in herb garden. Spikes green.  
A.v. "congona" = taken in infusion  
for cough; taken as a plaster  
fresh plant is ground with snake or  
lizard oil for broken bones.  
det. R. Callejas 1985.

11045. Amaranthus

Amaranth.

- F (2) Cult. weedy herb. Fls. green. Foliage  
used as spinach. Stems red at very base.

11046. Amaranthus

Amaranth.

- F (2) Cult. weedy herb. Stems red in lower  
half. Fls. green. Foliage used as  
spinach.

11047. Amaranthus cf. tristis L.

Amaranth.

- F (3) Cult. weedy herb. Stems red only  
at very base. Fls. green. Foliage  
used as spinach. det. J.A. Mears 1982.

11048. Erythroxylum ulei O.E. Schulz Transpiration  
ECON (1) Voucher Cult. shrub 40 cm. tall. Voucher

PERU, Dept Lima, Lima city, Magdalena.  
DEC 1 1981

11049. Amaranthus viridus L. amar.  
F (4) growing in crack of sidewalk in front of  
USM CAAAP on Avenida Gonzales Prada  
GB Magdalena, Lima det. C. Nieggoda '87

DEC 12 1981 Peru: Dept. Lima. Lima. Miraflores.  
2 Dec 1981. Coll. T. Plowman.

11050. Erythrina falcata Benth. Leg.  
F (4) <sup>scandent</sup> Cult. tree 4 m. tall with spread-  
K ing crown. Calyx and corolla  
NY deep red. det. C. Nieggoda 1982.

11051. Bidens pilosa L. Comp.  
(3) weedy subshrub 1 m. tall. ~~RAA~~  
F Rays white. Disc yellow.  
NY

11052. Heliotropium arborescens L. Boragin.  
F (2) Cult shrub 1.5 m. tall. Fls.  
usm pale blue-violet, fragrant of lilac

usm 11053. Oxalis pes-caprae L. Oxalid.  
F (6) Weed in flower garden.  
P Fls. bright cadmium yellow.  
NY det. A. Coult. 1982.  
AAU  
MO

11054. Nolana humifusa (Croun) Johnston Nolane.  
F (4) Cult. semi-succulent prostrate herb  
usm (ground cover). Fls. pale violet with deep

## violet nectar guides.

Museo de Historia Natural, 3 DEC 31. 1981

11055. Tagetes multiflora minuta L. Comp.

(3) 2v. "huacatay" det. M.O. Dillon 1982.

Cald  
AT weed F  
HIF K  
US

Cult. herb. Rays pale yellow.

Used extensively in sauces ~~and~~  
as a condiment and medicinally.11056. Vigna luteola (Jacq.) Benth. Leg.F (3)  
K  
NY

Prostrate vine in waste area.

Fls. yellow. det. C. Niezgoda 1982.

11057. Sorghum bicolor (L.) Moench. Gram.F (2)  
MO

Tall cult. grass 4 m. tall,

rooting at base of branches.

Infl. dull yellow. det. G. Davidse 1982.

11058. Helipteris alba (L.) Hassk. Comp.F (3)  
NY  
LPWeed in moist area. Fls. white.  
det. M.O. Dillon 1982.11059. Eugenia uniflora L. Myrt.F (1)  
'

Cult. treelet 4 m. tall. Fls. white.

FRS. red at maturity.

11060. Vitis vinifera L. Vitac.F (4)  
BH  
LA

Cult. vine. FRS. yellow-green immature.

DEC 3 1981

11061. Acalypha cf. mapirensis Pax

F (2) Cult. shrub 2 m. tall. Petioles, red.  
U Sp. lvs yellow-green with red tinge.  
det. M. J. Huft 1983.

11062. Medicago hispida Gaertn.

Leg.

F (2) Low herb in waste area.  
TEX Frs. green. det. C. Niezgodz 1982.

11063. Coriandrum sativum L.

Umbell.

F (1) n.v. "culantro"  
Cult. herb. Fls. white.  
Widely used as condiment.

11064. Phaseolus lunatus L.

Leg.

F (1) Cult. herbaceous vine.  
Fruits purplish black, green at  
margin, immature.  
n.v. "pallar"

11065. Lupinus mutabilis Sweet

F (3) Cult. herb 1.3 m. tall. Petals  
RNG blue-violet banner white at center  
BH with 2 yellow nectar guides.  
n.v. "terhui"

107  
11066. Inga feuillei DC. Legum.F (10)  
USM BH  
P MO  
NY RGT  
GTH K

Cult. tree 12 m. tall. Calyx olive green. Corolla dirty yellow. Filaments white.

live: Climaxton, MO

PERU: Dept. Pasco. Prov. Pasco. Road between Colquijirca and La Quinua, 5 Dec 1981.

16 km NE of Colquijirca. Alt. 3965 m. Coll. T. Plowman &amp; P. M. Rury.

F 11067.  
USM (3)  
POxalis catechacensis Knuth in open puna. Oxalid.  
Prostrate creeping herb. Fls. yellow.  
det. A. Lounsbury 1982.F 11068.  
USM (3)Muehlenbeckia vulcanica (Benth.) Endl. Polygon.  
cushion plant in open puna.  
Fls. creamy white. det. P. Matekaitis 198511069. Oenothera multicaulis R. & P. Onagr.F (3)  
USM  
MO

Rosette herb in open puna on hillside. Flowering branches prostrate. Fls. yellow-green throughout. det. P. Raven 1982.

11070. STACHYS PUSILLA (WEDD.) BRIQUET

LABIAT.

F (2)

Prostrate herb in open puna.  
Fls. white. DET. N. HENSOLD 1990

DEC 5 1981

F 11071. Relbunium cf. richardianum Rubiac. material on loan  
USM (2) Cushion plant in open puna.  
Fls. white.

F 11072. Barbula replicata Tayl. Musci  
(1) moss among cushion plants.  
det. W. C. Steere 1984

F 11073. Senecio ferreyrae Cabr. Comp.  
USM (5) Erect herb in rock crevice  
along road. Fls. yellow. det. M. O. Dillon 1982  
US  
LP  
K

---

25.8 km. NE of Colquijirca. Alt.  
3680 m.

F 11074. Solanum nitidum R. + P. Solanac.  
USM (6) Shrub 1 m. tall on open hillside  
MO with Berberis Polylophus etc.  
CORD Fls. light reddish violet. det. M. Nee 1982  
BH  
NY

---

28 km NE of Colquijirca.  
Alt. 3620 m.

11075. Tillandsia Bromel.  
F (3) Growing on rock cliffs. Infl.  
USM dark red.  
US

11076. Peperomia peruviana (Miq.) Dahls. Piperac

F (2) Fragile tuberiferous herb among  
USM mosses on moist, road bank  
protected det. R. Celiz 1982.

11077. Corcopsis scherffii Blake

Comp.

F (2) Straggly herb on ~~bank~~ road-  
USM bank. Fls. yellow. det. M.O. Dillon 1982.

11078. glendaria

Verb.

F (5) Decumbent herb rooting at the  
USM nodes. Fls. white.  
NY K

11079.

(1) Fungus on bare soil on disturbed  
F roadside. Cap purplish brown. Stipe  
tawny.

F 11080. Epilobium denticulatum R. + P.

Onagr

USM (3) Suberect herb in wet area on  
MO road bank. Fls. pink. det. P. Hoch  
1982.

F 11081. Berberis

Berberid

USM (2) Dwarf shrub on open rock cliff.  
U Fls. yellow.

11082A Thuidium peruvianum Mitten

Muscic

F (6) Mat-like moss on flat open rock. yellowish  
det. W.C. Steere 1984 brown.

F 11082-B Tortula pichinchensis Tayl. Bryophyt.  
det. W. C. Steere 1984

DEC 5 1981

F 11083. Tortula pichinchensis Tayl. Bryophyt.  
(2) Moss on vertical moist roadbank.  
det. W. C. Steere 1984

F 11084. Marchantia Hepaticae  
(3) growing on vertical roadbank  
at wet seep.

F 11085. Tortula fragilis Tayl. Bryophyt.  
(3) Moss on vertical roadbank.  
det. W. C. Steere 1984

6 Dec 1981.

DEC 6 1981

PERU: Dept. Huánuco. Prov. Huánuco. 8 km. NE of Huánuco on road to Tingo María. Alt. 1750 m.  
Coll. T. Plodeman & P. M. Rury

F 11086. ANNONA Annon.  
USM (5) shrub, 2 m. tall on roadbank in Citrus grove.  
U NY (flowers) yellow-green tepals abaxially,  
K fleshy tepals greenish-white adaxially

F 11087 Commelina diffusa Burm.f. Commel.  
USM (4) sprawling herb in shade of Citrus trees  
U NY flowers blue. det. R. Faden 1982.  
K

USM 11088 Acnistus arborescens (L.) Schlecht. Solanac.  
F (3) shrub ca. 3 meters <sup>open</sup> on gravelly slope  
CORD flowers creamy white/adaxial surface of petals



DEC 6 1981

with wide green stripe - branches covered with Tillandsia

11089 Lycianthes lycioides (L.) Hassler  
Solanum lyciodes L. det. M. Nee 1982 SOLANAC.

F (4)  
USM  
MO  
CORD

shrub ca. 1-2 meters <sup>open</sup> on gravelly slope above #11088; pale violet petals, yellow at center; anthers red-orange

11090

Boerhaavia erecta L.

NYCTAGINAC

F (4)  
USM  
NY  
GB

erect herb ca. 80 cm. tall from woody base dry open roadside; flowers magenta

11091

Lepidium DANIELSII C.L. HITCHCOCK CRUCIFERAE

(4)  
F (3)  
USM  
GH  
MICH

herb in shade of fruit trees on cultivated ground; flowers white and minute  
DET. I. AL-SHEHBAZ 1985

F 11092

JACARANDA acutifolia H. & B.

BIGNONIAC.

USM (4)  
MO  
K

Tree 6 m. tall open, dry, gravelly slope fruiting peduncles red, fruits pale green  
det. A. Gentry 1982.

11093

Tillandsia recurvata L.

BROMELIAC.

F (3)  
USM  
US  
SEL

epiphyte, covering densely branches of shrubs and trees of open, gravelly hillside  
det. H. Luther 1983.

11094

INGA feuillei DC.

det. C. Nees 1984.

LEGUMINOSAE

F (6)  
USM  
MO  
K  
NY INPA

tree 8 m tall w/ spreading crown cultivated near house; Corolla tube yellow green, white within, filaments white anthers pale green

DEC 6 1981

11095 Inga feuillei DC. LEGUMINOSAE  
F (5) habit same as #11094, but growing on  
USM NY open gravelly slope; fruits pendulous,  
K dull yellowish green, twisted spirally  
det. C. Niczgodla 1984.

11096 Jatropha ciliata Muell. Arg. EUPHORBIAC.  
F (5) shrub to 1 m. tall w/ succulent stems and  
USM clear sap, growing on dry open slope;  
US petioles + peduncles dark red; flowers  
U bright red, anthers red w/ yellow margins  
K det. M. J. Haft 1982

11097 Nicotiana tabacum L. SOLANACEAE  
(3+3) herb 1.5 m. tall growing in small clump  
F photo along roadside near houses, apparently not  
USM-2 cultivated; corolla tube white, limb pale pink  
RNG

11098 Schkuhria pinnata (Lam.) O. Kze. COMPOSITAE  
F (3) roadside herb in moist places; involucre  
USM basally green apically dark ~~red~~ red; rays  
US and disc yellow det. M. O. Dillon 1982.

11099 LANTANA VERBEN.  
F (2)(3) straggly shrub 0.5 m. tall, dry open hillside  
USM flowers very pale lavender

- 11100 Ageratum conyzoides L. Comp.  
F (3) herb 80 cm. tall in moist area along roadside  
USM flowers in bud pale violet, turning white  
US det. M.O. Dillon 1982.
- 11101 Chamaesyce lasiocarpa (Kl.) Arthur EUPHORB.  
F (3) herb in moist place along open roadside  
USM bracts white  
U
- 11102 Chamaesyce lasiocarpa (Kl.) Arthur EUPHORB.  
F (3) decumbent herb on dry roadbank along culvert  
USM leaves with central dark red splotch below middle  
MO bracts white
- 11103 Selaginella sellowii Hieron. Lycopod.  
F (3) ~~Lycopodium~~ det. R. G. Stolze 1982.  
USM creeping prostrate herb on dry, open, rocky slope  
GH
- 11104 Waltheria ovata Cav. Stercu?  
F (3) densely branched shrub with pendulous branches  
USM on dry roadbank; flowers yellow  
CTES det. P. Matekaitis 1982
- 11105 Ipomoea carnea Jacq. CONVOLV.  
F (3) scandent shrub along roadside near houses  
USM stem w/ milky sap; flowers pink  
FAU
- 11106 Acacia huarango Ruiz ex Macbr. LEGUM.  
F (2) Armed shrub 1 m. tall on dry, open slope  
USM flowers yellow det. C. Niezgoda 1982.

DEC 6 1981

PERU: Dept. HUÁNUCO: Province HUÁNUCO.  
42 km NE of HUÁNUCO on road to Tingo Maria,  
before Carpish Pass Alt. 2480 m.

11107

Gunnera

GUNNER.

F (5)  
USM  
COL  
K  
NY-2  
terrestrial herb, Acaulescent, with thick fleshy  
caudex, growing in wet meadow along roadside  
Inflorescence dull reddish green; Terminal  
bud covered w/ mucilage

11108

Marasmius

BASIDIA.

F (1)  
delicate, tiny white mushroom on decaying  
inflorescence of Gunnera #11107 (ibid.)

11109

Munozia silphioides (Poepp. & Endl.) Reiche <sup>Bret.</sup> COMP.  
herb 1.5 m. tall on wet slope in cloud forest  
rays and disc bright yellow; stems w/ milky  
latex. det. M. D. Dillon 1982.

F (5)  
USM  
US  
LP  
TEX

THHQ

PERU: Dept. HUÁNUCO: Prov. HUÁNUCO.  
Carpish Pass.

Alt. 2570 meters, 46 km. NE of HUÁNUCO.

Coll. T. Plowman & P.M. Rury.

*reflexus* Presl det Stein 1988.

11110

*Centropogon* ~~*auratus* E. Wimmer~~ LOBEL.

F (5)

USM  
Duke  
K  
NY

pendulous shrub on road bank; calyx dark red-purple, corolla bright red, limb yellowish orange; stem w/ milky sap det. T. Plowman 1982.

Alt. 2490 m., 46.8 km NE of HUÁNUCO

11111

*Epidendrum macrostachyum* Lindl. ORCHID

F (2)  
USM

erect orchid on steep roadbank; sepals greenish brown, petals creamy white  
det. C.H. Dodson 1982

11112

[*Rorippa*] *Nasturtium officinale* L. CRUCIF.

F (3)  
USM

GH herb in running (open) stream

11113

*Jaegeria hirta* L. COMP.

F (4)  
USM  
P

US herb on moist, open roadbanks  
rays bright yellow, disc yellowish brown  
det. M.O. Dillon 1982.

11114

*Alternanthera lanceolata* (Benth.) Schinz AMARAN.

(5)  
F  
USM  
PH  
K  
NY

herb in wet, open stream bed; stems & petioles dark, reddish purple; flowers creamy white  
det. J.A. Mearns 1982.  
(subsp. which has been called *A. lehmannii*)

- 11115 Tournefortia BORAG.  
F (2) K treelet 3 m. tall on open road bank in  
USM cloud forest; flowers white, fruits white
- 11116 Epidendrum porpax Reichb. f. aff. ORCH.  
F (2) herb on steep bank, flowers dirty  
USM yellow throughout. det. E.A. Christenson 1982
- 11117 Salvia macrophylla Benth. LABIAT  
F (5) NY scandent herb on wet roadbank  
USM corolla sky blue det. R.M. Harley 1982.  
K u
- 11118 Centropogon luteus E. Wimm. LOBEL.  
F (3) DUKE long, branched shrub hanging from steep  
USM roadbank; corolla tube red, limb yellow  
det. P. Matekaitis 1983
- 11119 Aegopogon cenchroides H. & B. ex Willd. GRAMIN  
F (4) MO delicate grass on moist roadbank  
USM det. G. Davidse 1982.  
K
- 11120 Equisetum bogotense HBK. EQUIS.  
F (3) open, bare soil on roadbank; rhizomatous  
USM det. R.G. Stolze 1982.
- 11121 Drymaria villosa Cham. & Schlecht. CARYOPH  
F (3) delicate trailing herb, in wet streambed  
USM flowers white det. A. Cano 1989  
GB

Lachemilla aphanoides

- 11122 Alchemilla (L.f.) Rothm. s.l. Rosac.  
 F (3) trailing herb, hypanthium red, perianth  
 USM green det. E.G.B. Kieft 1983.  
 u

- 11123 Polypogon interruptus H.B.K. GRAMIN  
 (3) F growing at edge of creek det. G. Davidse 1982.  
 USM  
 MO

- 11124 Hyptis uncinata Benth. LABIAT  
 F (4) spreading herb on moist roadbank, ca. 1.5 m  
 USM tall, flowers white det. R.M. Harley 1982.  
 K

- 11125 ~~Jamesonia~~ Grommitis moniliformis (Lag. ex Sw.) Proctor FERN  
 F (2) steep roadbank - fern det. R.G. Stolze 1982  
 USM

- 11126 Cyperus andreaeanus CYPER  
 F (2) herb along open stream det. D. Adams 1983.  
 USM

- 11127 Galinsoga quadriradiata R. & P. COMP.  
 F (2) herb in moist meadow; rays pink,  
 USM disc yellow det. M.O. Dillon 1982.

- 11128 Paspalum scabrum Scribn. GRAMIN  
 F (5) wet AREA along roadside, Red stem at nodes  
 USM det. Davidse 1982.  
 MO  
 K  
 ISC

DEC 6 1981

11129<sub>F</sub> Pennisetum bambusiforme (Fourn.) Hemsl. GRAM  
(5) USM MO ISC K growing along road, on wet road bank  
det. G. Davidse 1982.

11130 Leucocarpus perfoliatus (HBK.) Benth. SCROPH  
F (3) coarse herb, 1.5 m. tall, moist roadbank  
USM K corolla pale yellow, fruit white  
det. R

11131<sub>F</sub> Rhynchospora vulcani Böck. CYPERAC  
(3) USM MO herb in wet meadow along stream.  
det. W. W. Thomas 1986

11132 Conyza bonariensis (L.) Cronquist COMP.  
(3) erect herb in moist area along creek,  
USM F us up to 1 meter tall, flowers creamy white  
det. M. O. Dillon 1982.

11133 Gnaphalium cheiranthifolium Lam. COMP.  
F (3) erect herb in moist area along creek,  
USM us flowers creamy white  
det. M. O. Dillon 1982.

11134<sub>F</sub> Elleanthus ORCHID  
(2) USM erect herb on steep bank, flowers creamy yellow

11135 Stelis ORCHID  
(1) diminutive orchid on roadbank, flowers creamy  
USM yellow, reddish at center



Alt. 2350-2430 m., Approx. 50-52 km  
from Huánuco.

- 11136 Lepanthes sp. ORCHID  
+ (3) diminutive orchid, steep roadbank, flowers  
USM w/ perianth red ABAXIALLY, cream ADAXIALLY  
F fruit red  
SEL
- 11137 = HUPERZIA REFLEXA (LAM.) TREVISAN  
Lycopodium reflexum Lam. VAR. MINOR LYCOP.  
F (2) Small, erect herb on roadbank (SPRING) B. OLG.  
USM det. R. G. Stolze 1982., B. OLGGAARD 1984
- 11138 Fuchsia decussata R. & P. ONAGR  
F (3) scraggly shrub on roadbank, pendulous  
USM branches, flowers red (size ~ 1.0 meter)  
MO det. P. Hoch 1982
- 11139 Pernettya prostrata (Cav.) DC. ERICAC  
F (2) low shrub on steep roadbank, fruits pink  
USM
- 11140 Sphyraspermum cordifolium Benth. ERICAC  
F (3) low shrub steep roadbank, flowers pale pink  
USM NY det. J. Luteyn 1983.
- 11141 Solanum macrotonum Bitter SOLAN.  
F (5) erect herb in wet AREA along stream;  
USM CORD flowers white, mature fruits green  
MO BH det. M. Nee 1982.
- 11142 Elaphoglossum huacssaro (Ruiz) Christ FERN  
F (3) fern on steep, (wet) roadbank  
USM det. R. G. Stolze 1982.  
GH

DEC 6 1981

- F 11143  
USM (2) Elaphoglossum sp. aff. E. engelii (Karst.) Christ Fern  
fern on steep roadbank det. R.G. Stolze 1982.
- 11144  
F (2)  
USM (2) Pernettya prostrata (Cav.) DC. ERICAC  
diminutive shrub on roadbank fruits  
reddish purple
- ~~11145~~ Salvia LABIAT  
~~erect herb on roadbank, calyx and upper~~
- 11145 Bartsia INAEQUALIS BENTH. SSP. RUBESCENS SCROPH.  
(A. LOPEZ) MOLAD  
erect herb on roadbank, calyx and upper lip  
of corolla red, lower corolla lip green  
DET. U. MOLAD 1987
- 11146  
F (3)  
USM (3) Lycopodium reflexum (LAM.) TREVISAN VAR. REFLEXUM (A)  
= HUPERZIA REFLEXA (LAM.) TREVISAN VAR. REFLEXA (A)  
erect herb on roadbank, in nearly full sun.  
det. R.G. Stolze 1982. B. OLLGAARD 1984
- 11147  
F (2)  
USM (2) Liabum ferreyrii H. Robinson COMP.  
shrub ca. 1 meter, on roadbank, flowers past  
det. M.O. Dillon 1982.
- F 11148.  
USM (3)  
MO (3) Pennisetum peruvianum Trin. GRAM.  
grass ca. 1 meter tall along roadbank  
det. G. Davidse 1982.
- 11149  
F (4)  
USM (4)  
SEL  
GH Pleurothallus aff. cardiostola Rehb. f. ORCHID.  
erect herb on roadbank flowers pale  
yellow w/ central dark red stripe  
det. C.H. Dodson 1982.

11150 Pleurothallus

ORCHID

-(1)  
USM similar to #11149 except: flowers pale reddish brown

Oreocallis mucronata (Willd.) Sleumer s. str.

AAU 11151 Embothrium det. Sleumer 1982. PROTEAC

Duke (2) f  
GB USM sparsely branched shrub, flowers rose pink  
VC (11) K only one seen stems glaucous.  
L flos NY  
MO GH  
US

11152 Cavendishia punctata (R. + P. ex J. St. Hil.) Hb. ERICAC

F (3) scandent shrub ca. 2 meters tall along roadbank, axis and pedicels reddish, fruits green  
USM  
NY det. J. Luteyn 1983.

11153 Cavendishia bracteata (R. + P. ex J. St. Hil.)<sup>Hb.</sup> ERICAC

F (4) scandent shrub ca. 2 meters, on roadbank  
USM  
NY  
K ovary green, corolla tube red w/ pale green apex  
det. J. Luteyn 1983.

11154 Elleanthus

ORCHID

F (1) erect herb on steep roadbank, flowers creamy

11155 Desfontainea

LOGAN

(6) shrub 2 m. tall on steep roadbank  
photo F corolla tube red, limb yellow, fruits yellow  
USM K  
U NY  
GH

DEC 6 1981

- 11156 Fuchsia abrupta Johnston <sup>Det. T. Plowman '82</sup> ONAGR.  
F (3) shrub on roadbank, flowers pendulous + red  
USM MO photo throughout
- 11157 F Myrica pubescens Willd. MYRIC.  
(3) <sup>USM</sup> shrub ca. 2 m.; inflorescence pale green  
u
- 11158 Bomarea AMARYL.  
F (4) twining vine among shrubs on roadbank  
USM fruits pale green w/ white pubescence  
GB on upper (apical) surface  
NY
- 11159 Piper lineatifolium Trel. & Yund. PIPER.  
F (3) erect shrub 1.5 m.; spikes erect and  
USM yellowish brown. det. R. Callejas 1982.  
NY
- 11160 Pitcairnia sp. nov. BROMEL.  
F (3+3)(4) scape ca. 1 meter long, fruits green  
USM growing on steep wet det. L.B. Smith 1983.  
US.

573 Alt. 2310 m., 54 km. NE of  
Huanuco on road to Tingo  
Maria.

- 11161 Veronica peregrina ssp. salapensis (HBK.) Penn. SCROPH.  
(2) F erect herb in wet areas on roadside.  
USM Fruits pale green.

11162 Passiflora ligularis Juss. PASSIFLF (7)  
USM  
MO  
TEX  
K

extensive herbaceous vine among shrubs  
 leaves pale purplish below, shiny green  
 above; bracts pale green w/ purple veins;  
 fleshy, light green abaxially + greenish white  
 adaxially sepals; petals greenish white;  
 corona white and purple banded  
 det. T. Plummer 1983.

11163 Pavonia aff. hexaphylla (S. Moore) Krapov. MALVACEAEF (2)  
USM

herb in waste area along road, flowers pale  
 orange det. P. Fryxell 1984

11164 Solanum confine Dunal vel aff. SOLANF (3)  
USM

shrub ca. 2-3 meters in streambed of  
 quebrada; immature fruits green  
 det. M. Nee 1982.11

F - 11164A. Solanum aphyodendron Knapp det. J. Knapp 1985.11165 Solanum appressum Roe SOLANF (3)  
USM  
U

shrub ca. 2-3 meters along quebrada w/ #11164  
 flowers white, immature fruits green  
 det. M. Nee 1982

11166 Bornedesia corymbosa (R. + P.) D. Don COMP.F-2 (3)  
USM

small tree with spiny trunk and branches  
 along quebrada with #'s 11164 + 11165  
 flowers past  
 det. M. O. Dillon 1982.

DEC 6 1981

- ✓ 11167 Monnina POLYGAL  
(1) unbranched shrub 1 meter tall; wings  
USM purple, keel yellow
- ✓ 11168. Valeriana hirsutissima Killip VALERIAN.  
F. (1) erect herb in shade of trees along quebrada  
buds cream colored det. P. Matekatis  
V. MACBRIDEI KILLIP 1982  
DET. F.R. BARRIE 1986
- ✓ 11169 Oxalis spirodis R. + P. ex Don OXALID  
F (7) K herb w/ succulent stems (red stems), along  
USM Mo quebrada in shade of trees; flowers  
P u yellow
- ✓ 11170 Pilea URTIC  
F (5) herb in shade of trees along quebrada  
USM Mo inflorescence greenish white  
u INPA
- ✓ 11171 Peperomia martiana Mig. PIPERAC  
F (3) erect succulent herb on rock in shade of trees  
USM along quebrada; spikes cream-colored.  
det. R. Colley 1986.
- ✓ 11172 Piper lineatifolium Trel. + Yunch. PIPER  
F (3) shrub ca 1 meter in shade of trees along  
USM quebrada; spikes cream colored.  
u det. R. Colley 1982

- ✓ 11173 Begonia sp. nov. ? BEGON  
 F (3) herb 1.5 meters, in shade of trees  
 USM along quebrada; flowers pale pink, fruits brown  
 US det. L.B. Smith 1983.
- ✓ 11174 Verbascum cf. virgatum Stokes in Will. / SCROPH  
 F (3) herb erect on open roadsides, up to 1.5 m.;  
 USM flowers pale yellow w/ purple ring at center  
 NY (FIRST RECORD FOR PERU)
- ✓ 11175 Canna iridiflora R + P CANN.  
 F (2) rhizomatous herb, ca. 2 meters tall, along  
 USM waterfall; flowers pendulous, calyx  
 NY and corolla dark red; staminate tube white  
 w/ red limb. Only one seen
- 11176 Piper elongatum Vahl PIPER  
 F (3) Shrub 1.5 meters along open roadside  
 USM stems reddish; spikes erect and anteriorly  
 NY curved, cream colored and turning green.  
 det. R. Callejas 1985.
- 11177 Cecropia andina Cuatrec. MORACE.  
 (9) tree ca. 10 meters along roadside in  
 photos cloud forest - infested with biting  
 F ANTS - male plant; leaves 9 lobed  
 USM  
 U-3 DET. C.C. BERG 5/8/94  
 NY-2

DEC 7 1981

Peru: Dept. Huánuco. Prov. Leoncio  
Prado. Tingo María. Alt. 680 m.  
7 Dec 81.

11178. Inga edulis Mart. Legum.  
n.v. "paeay" det. C. Niezgoda 1984  
Cult. tree 8 m. tall with spreading  
crown. Calyx + corolla light yellow-  
green. Filaments white. Growing oppo-  
site post office along street.

DEC 7 1981

PERU: Dept. Huánuco. Prov. Leoncio  
Prado. Distrito Rupa Rupa. Tingo María.

Jardín Botánico de Tingo María.  
Alt. 680 m. 7 Dec 1981.

Coll. T. Plowman & M. Ramírez R.

11179. Coussapoa ovalifolia Trece. Morac.  
Tree 10 m. tall x 20 cm dbh

- (6) USM NY MO K  
Stipule yellow. Fruits red-purple.  
Sep. clear. Not planted. det. C.C. Berg 1982  
n.v. "reneco negro"

11180. Coussapoa villosa P. & E. Morac.

- (5) USM  
Tree 8 m. tall, not planted.  
Leaves whitish beneath. Infl.  
pale green. Sep. clear, yellow.  
Stipule dull orange. Leaves eaten  
by black + orange caterpillar (collected)  
n.v. reneco negro. [11180A. Caterpillars]



11181. Siparuna ASPERA (R. & P.) A. C. Monimiac.  
 (3)  
 n.v. "Imon del monte"  
 Treelet 5 m. tall. Aromatic.  
 "Fls." fleshy, yellow. FR. green, red  
 within. DET. S. RENNER & G. HAUSNER 1994

USM  
F  
GB

11182. Renealmia nicolaidides Loesener Zingib.

F (8)  
USM  
U  
INPA

- n.v. miskipango  
 Herb 3 m. tall (cultivated  
~~from plant collected at La Divisoria~~)  
 Peduncle pale green. Infl. bracts  
 pink turning brown. Glycer pink. Corolla  
 tube white, lobes red. Staminate  
 pale yellow. Also common in Tingo Maria

11183. Bambusa TULDA ROXB. Gram.

F (18)  
USM  
US  
separate stems  
MO  
K  
BH

- Cult. bamboo forming large  
 clump, 6 m. in diameter. Culms  
~~green~~ <sup>green</sup> ~~yellowish~~ Spikelets green.  
 6 cm diam., <sup>intern-</sup> nodes 57-71 cm long.

DET. X. LONDOÑO 1990

11184. Neea SPRUCEANA HEIMERL. Nyctag.  
 DET. R. LEISNER 1990

F (4)  
USM  
GB  
MO

- Tree 8 m. tall x 20 cm. DBH.  
 Not planted. Fruits dark red;  
 pedicels coriaceous red. Buds cream  
 n.v. "yanamuco" "black" section of cane

DEC 7 1981

11185. Vismia

Guttif.

(3) n.v. "pichirina"

USM Tree 8 m. tall x 15 cm. DBH.  
F Fls. pinkish yellow. Not planted.  
NY

11186. Solanum

Solanec.

(4) Small tree 6 m. tall cultivated

USM from seeds from plant growing wild  
F in Forest Reserve of University  
BH Nacional Agraria, Tingo Maria.  
CORD Leaves forming rosettes at tips  
of branches. Infl. pendulous  
from center of rosette. Calyx pale  
green. Corolla fleshy, white. Plant  
4 years old.

11187. Cleome

Cappzrid.

(3)

USM  
F

Cult. herb 1.5 m. tall grown  
from seeds from Castillo Grande.  
Sepals & petals light green.  
Filaments pale brown.

11188. Clavijs POEPPIGII MEZ

Theophrast.

(3)

USM  
FOTOS  
F  
GB

Unbranched tree 6 m. tall.  
Lvs. all near apex. Fls. cauliflorous,  
orange. Not planted. DET. B. STAHL 1989

11189. Tovomitopsis

Guttiferae

- (6) Cult. tree 8 m. tall x 15 cm. DBH. Grown from seeds collected from wild tree from Aguaytía. Fls. pale yellow. FRs. <sup>pendulous</sup> green with purple-black tinge, (Stems with white latex) & red-purple within, aromatic.

M. STANNEA (GRISEB.) NIED. W. ANDERSON 1991

11190. Mascagnia benthamiana (Griseb.) Anderson Malpigh.  
(2) Extensive vine cultivated in sun. Lvs. silvery beneath. Old fruits brown. Grown from cutting from Aguaytía.  
see Plowman 5865, det. W.A. Anderson 1982.  
† 7630?

11191. Cyphomandra PENDULA (R. & P.) SENDTN. Solanec.  
DET. L. BOHS 1986

- (5) Treelet 1.5 m. tall with single stem and horizontal branches in one plane. Infl. pendulous from older branch axils. Peduncle brownish green. Calyx pale red-violet. Corolla light violet. Peduncle in fruit green, calyx lobes red violet. Fruit still green. Grown from seed collected at La Florida, Rio Huallaga.

11192. Solanum

Solanaceae

- (3) Shrub 1 m. tall. Lvs. <sup>dark</sup> red - purple beneath. Peduncle erect. Fls. nodding. Petals abaxially purple, adaxially cream. Anthers pale yellow.

USM  
F  
MO11193. Clusia

Guttif.

- (5) Small tree 7 m. tall. Not planted. Buds white. Fls. rose pink. Stems with milky latex.

USM  
MO  
NY  
F  
K11194. Ficus paraensis (Miq.) Miq. Morac.

- (4) Tree 10 m. tall x 15 cm. DBH. Frs. olive green with dark red vertical stripes. Stems with white latex. det. C. C. Berg 1982.

USM  
F  
U  
NY11195. Miconia triplinervis R. + P. Melast.

- (5) Shrub 3 m. tall cultivated from seed collected wild in Forest Reserve of Univ. Mac. Ag. Bria de la Selva in Tingo Maria. Fls. white. det. Wurdach 1982.

USM  
F  
US  
K  
NY  
GB

11196. Boehmeria

Urticac.

USM (5) Treelet 5 m. tall. Fls. pale  
F U green. Not planted. det. C.C. Berg 1982.  
K NY

11197. Piper divaricatum Meyer

Piperac.

USM (5) Treelet 5 m. tall. Spikes ~~pendulous~~  
F NY green. Lvs. shiny both surfaces.  
INPA Not planted. det. R. Callejas 1982.  
K

11198. Psychotria carthaginensis Jacq. Rubiac.

USM (5) Treelet 5 m. tall. Fls. white.  
F NY Not planted.  
GB  
INPA

11199. Annona muricata L.

Annonac.

(6) Tree 8 m. tall. Cultivated  
USM from seed from wild tree at Cast-  
F illa Grande. Fls. cauliflorous  
U and on the branches, pale creamy  
MO yellow. FRS. Said to be orange,  
NY round ca. 10 cm. diameter.  
K "n.v. guanz guanz" det. T. Plowman 1982.

11200. Ficus caballina Standl.

Morac.

(3) Tree 12 m. tall x 20 cm. DBH;  
USM with latex. Sterile. Fruit said  
F to be red, ca. 1 cm. diameter.  
U Not planted.  
det. C.C. Berg 1982.

11201. Lasiacis ligulata Hitch. + Chase <sup>Grass.</sup>  
 (3) Scandent grass 2.5 m. tall  
 USM along fence in secondary growth.  
 F Frs. black. Not planted.  
 MO det. G. Davidse 1982
11202. Lasiacis ligulata Hitch. + Chase <sup>Grass.</sup>  
 (4) High climbing grass. Culms  
 USM 10 m. tall. Sterile. Not planted.  
 F det. C. Davidse 1982  
 K
11203. Calliandra angustifolia <sup>Benth.</sup> Spruce ex Legum.  
 (2) Cult. Shrub 2 m. tall grown from  
 USM seeds brought from Aquaytia.  
 F Calyx cream to pink. Filament  
 tube white, filaments pink.  
 N.v. "bobinsana"
11204. Schistocarpha eupatorioides (Fenzl.) <sup>Kuntz.</sup> Comp.  
 (3) Weedy herb 1 m. tall on open banks  
 USM of Río Huallaga. Fls. yellow. <sup>det. M.A. Dillon 1982.</sup>  
 F  
 US var. sessiliflorum
11205. Solanum sessiliflorum Dunal <sup>Solanac.</sup>  
 (2) N.v. "cocona"  
 USM Cult. Shrub 1 m. tall. Fls.  
 pile green.  
 det. Th. Nee 1982.

DEC 7 1981

11206. Cordia bifurcata R. & S. Boreg.  
(2) Shrub 1m. tall in open area.  
USM Fls. white -  
F nv. "huasca anunilla"

det. N. Taroda 1983

11207. Mascagnia anisopetala (Adr. Juss.) Griseb. Malpigh.  
(3) n.v. purga huasca.

USM Liana among shrubs. Sterile.  
F Fls. said to be red. Grown from  
NY cutting brought from Aquaytia.  
det. ~~John~~ Anderson 1985  
T. Plowman

11208. Crucania spinulosa (Poepp. & Endl.) Cogn. Cucurb.

- (4) Extensive herbaceous vine.  
USM in trees. Fls. orange. Fruits  
F pendulous, green.  
K nv. "zapollito del monte"  
NY Fruits edible when ripe  
sweet, yellow. det. C. Jeffrey 1983.

- P  
AAU 11209. Urera caracasana (Jacq.) Griseb. Urticac.  
INRA  
NY

- (6) Weak tree 8 m. tall x 10 cm  
USM DBH. ~~Receptacles~~ fleshy, pale brown.  
F seeds brown.  
nv. "ishung sin espina"

- 11209A. Snails

F

8 Dec 1981.

Jardín Botánico de Tingo María.

= ALBIZIA SAMAN (JACQ.) F.V. MUELL.

11210. Samanea saman (Jacq.) Merrill leg.

(6) Tree 10 m. tall. Calyx yellow.

USM K green. Corolla cream. Filaments  
F US cream in basal  $\frac{1}{4}$ , red in apical  
NY MO  $\frac{3}{4}$ . Not planted.

n.v. "lliucho vainilla"

det. C. Niezgoda 1984, L. Rico 1989

11211. Cyphomandra OBLIQUA (R. & P.) SENDTN. 1980  
DET. L. BOHS

(3) Treelet 3.5 m. tall, grown

USM from seed collected at Castillo  
F-2 Grande. Petals light brownish  
green, anthers cream turning  
brown. ~~Not~~

n.v. "chupo sacho" - fruit eaten.

Leaf crushed with water and  
limón verde; taken for the kidneys.

→ trizygum Bitt.

11212. Solanum mite R. & P.

(4)

USM Herb 1 m. tall. Corolla pale  
K F green, petals reflexed. Anthers  
MO yellow. det. M. Nee 1982.

11213. Muntingia calabura L.

Filice.

USM (4)

Tree 15 m. tall x 25 cm diam-

F U  
INPA

ter. Fls. cream. Fruit red.



DEC 8 1981

n.v. "yumanosa"

A. FLORIBUNDUS (P. & E.) RADLK. [G.D. PENNINGTON] 1994

F 11214. ALLOPHYLUS PUNCTATUS (P. & E.) RADLK. SAPIND.  
USM (4) DET. R. E. GEREAD 1988  
MO Tree 6 m - tall. FRs. yellow.  
U

Malvariscus penduliflorus DC.

11215. Hibiscus \* apparently a white-flowered mutant Malvar.  
F (2) Fide P.F.  
USM Cult. shrub 2 m - tall. Fls. white.  
det. P. Fryxell 1984

F 11216. Cissampelos Menisperm.  
USM (2) Vine in thicket. Fls. yellow green.

11217. Rottboellia exaltata L.f. Gram.

F (4) Grass near river bank in open  
USM sun. det. G. Davidse 1982  
MO

✓ 11218. Eryngium foetidum L. Umbell

(2) Cultivated aromatic herb.  
F n.v. "sacha culantro" - used as  
RNG culinary herb.

11219. Crinum?

(2) Cult. Bulbous herb with short pseudo-  
USM stem 8 cm tall, plant 1 m. tall. Amaryllid  
F Fls. white throughout.  
K

H220

11220. Heliconia zebrina Plowman, Kress + Kennedy  
 (4) Herb 1 m. tall. Cultivated  
 USM from plants collected at Ja-  
 F-2 cintillo. Leaf bases purplish  
 K brown. Upper leaf surface  
 velvety with alternating dark  
 green and light yellowgreen bands.  
 Midrib light yellow green. Lower  
 leaf surface red-purple, dull.  
 Peduncle and branch bracts red-  
 dish orange. Pedicel and ovary  
 light green.

- ✓ 11221. Alternanthera bettnichiana  
 (2) N. v. berros "  
 USM Cult. herb. Fls. cream.  
 F use: leaves are wilted with  
 boiling water, then fried with  
 lard and eggs - eaten.

DEC 6 1981

Peru: Dept. Huánuco. Prov. Huánuco.  
Carpish Pass. 46.8 km. NE of Huánuco  
on road to Tingo Maria. Alt. 2490m.  
6 Dec 1981. Coll. T. Plowman and P.M. Rury.

- ✓ 11222. *Stereocaulon ramulosum* Räscher Lichens  
F (1) Lichen on steep open roadbank.  
det. R.C. Harris 1987.
- ✓ 11223. *Hepatica*  
F (3) Liverwort on steep wet open  
roadbank.
- ✓ 11224. *Peltigera laevigata* (Merr. ex Riddle) Gyelike Lichen  
F (1) ~~Liverwort~~ Lichen on steep wet open road-  
bank. det. R.C. Harris 1987.
- ✓ 11225. *Breutelia chrysea* (C. Müll.) Jaeg. Musci  
F (5) Moss on steep wet open roadbank.  
det. W.C. Steere 1984
- ✓ 11226. *Hepatica*  
F (3) Liverwort on steep wet open roadbank.
- ✓ 11227. *Polytrichum juniperinum* Hedw. Musci  
F (1) Cushion moss on steep wet open  
roadbank. det. W.C. Steere 1984
- ✓ 11228.  
F (3) Cushion moss on steep wet open  
roadbank.

DEC 6 1981

- ✓ 11229. Hepaticae?  
F (1) leafy liverwort on steep wet open  
roadbank.
- ✓ 11230. Breutelia chrysea (C. Müll.) Jaeg. Bryophyta.  
F (1) Bryophytes on steep wet  
open roadbank. Mixture.  
det. W. C. Steere 1984

DEC 7 1981 Peru: Dept. Huánuco. Prov. Leoncio  
Prado. Jardín Botánico de Tingo  
María. Tingo María. Alt. 880 m.  
Coll. T. Plowman & M. Ramírez R.

- ✓ 11231. Brugmansia versicolor Lagerh.  
F (2) Cult. treelet 3 m. tall.  
Fls. completely pendulous, pure  
white, fragrant in the evening.  
Corolla teeth recurving 360°.  
Anthers connivent.

Peru: Dept. Huanuco. Prov. Leoncio Prado

Date & Locality same as 11233  
det. D. Stephenson 1983.11232. Zamia poeppigiana Mart. & Eichl. in Mart.(25) massive cycad with trunk  
1.8 m. tall x 25 cm. diameter.

Trunk light brown.

Lvs. about

photos

12. ~~15~~ Petiole zoned, 85 cm. long.

USM

Lf. blade 2 m. long with 49 pairs

F-3

of leaflets. Cone solitary from

NY-2

upper leaf axil, pendulous;

K

peduncle 18 cm long x 6 cm. diameter.

MO-2

Cone 55 cm long x 15 cm. diameter.

BH

Megasp. phylls 30 per

INPA

vertical row, reddish brown.

US-2

LA

FTG

DEC 9 1981

PERU: Dept. HUÁNUCO: Prov. Leoncio Prado.  
Tingo Maria. Steep hillsides opposite  
Airport, 700-780 meters. 9 Dec 1981.  
Coll. T. Plowman, M. Ramirez R. & P. M. Rury

11233 Cryptochloa unispiculata Soderstrom GRAMIN.  
(4) <sup>USM</sup><sub>F</sub> <sup>US</sup><sub>MO</sub> grass growing in small clumps  
det. J.G. Davidse 1988.

11234 Xylobium squaleus (Lindl.) Lindl. ORCHID.  
(1) <sub>F</sub> epiphytic orchid on tree limb;  
inflorescence pendulous, peduncle  
dull reddish purple, perianth cream  
w/ purple tinge; column basally white  
purple black at apex. det PP. 1982.

11235 Hylaeanthus hexantha (P. & E.) Jónk. + Jónk. MARANT.  
(2) <sup>USM</sup><sub>F</sub> herb 40 cm. tall in forest understorey  
bract green, calyx hyaline, corolla  
and staminodes pale yellow.  
det. T. Plowman 1982.

11236 CALATHEA MARANT.  
(2) <sup>USM</sup><sub>F</sub> herb on limestone rocks, leaves green  
above w/ slight lustre, dull red-purple  
beneath; peduncle + petioles dark  
red purple, bracts green, calyx green  
corolla + staminodes white, capsule  
greenish-white

Banta  
11236A. Caladium  
JIVE <sub>F</sub> <sup>MS</sup> Terrestrial herb no voucher

- 11237 Calathea MARANT.  
 (2) terrestrial herb in understory; petiole and  
 USM leaf sheaths purplish-brown, pulvinus  
 F light brown, leaf blade dark green above  
 and somewhat shiny, dull pale glaucous  
 green beneath; peduncle light green  
 to reddish, fertile bracts pale green,  
 sterile bracts light green calyx and corolla  
 creamy white, staminodes purple.
- 11238 Fittonia albivenis (Kunth ex Vitch) Brummitt GESNERIAC.  
 (2) trailing herb of forest understory; leaves  
 USM dark, shiny green with white veins;  
 F flowers pale yellow.
- 11239 Piper reticulatum L. PIPERAC.  
 (2) treelet 3 m. tall, leaves papyraceous,  
 USM spikes erect + green. det. N. Collaris 1982.  
 F
- 11240 Olyra latifolia L. GRAMIN.  
 (3) scandent grass 2 m. tall; spikelets pale  
 USM green det. G. David 1982  
 F
- 11241 Pseudechinolaena polystachya (H.B.K.) Stapf Gram.  
 (2) trailing herb w/ erect inflorescences growing  
 USM at edge of chacra, fruits green.  
 F det. M. Nee 1982.

DEC 9 1981

Cyathula achyranthoides (HBK.) Moquin

11242

~~Alternanthera~~ det. J.A. Meers 1982. AMARANTH.

(3)

USM F  
PH

herb along trail in the forest, flowers  
pale green

11243

Begonia

BEGONIAC.

(2)

USM  
F

succulent herb along trail in forest,  
flowers white

11244

RUBIAC.

(3)

USM  
F  
MO

shrub ca. 1 meter tall in forest understorey;  
flowers white and on tips of lower  
branches

11245

Philodendron fibrillosum Poeppig

ARACEAE

(1) F

USM

climbing vine on tree trunk; peduncle  
light green, spathe white.

(NEW to PERU)

11246

Cleidion woodsonianum Croizat

EUPHORB.

(4) USM

DAV K F

tree 6 m. tall; fruits pendulous, green.  
det. M. H. Huft 1982.

11247

Pavonia fruticosa (Miller) Fawcett & Rendle MALVAC.

(2)

F

low, unbranched shrub along trail in forest;  
calyx green, corolla white.

det. P. Fryxell 1984

11248

Lycianthes aff. amatitlanensis (Coulf. & Perr. Sm.) SOLANAC.

(3) USM

F MO

erect, arching herb to 1 meter tall; fruits  
bright red at maturity. det. D'Arcy 1983.



DEC 9 1981

*Zapoteca amazonica* (Benth.) H. Heru. det. H.  
*Calliandra amazonica* Benth. Hernandez 1987.

11249 F ~~BAUHINIA~~ det. C. Niezgoda 1982 LEGUM.  
 (7) USM NY US dark purple.  
 K MO underli

11250 *Erythroxylum fimbriatum* Peyr. ERYTHROX  
 (15) treelet ca. 3 meters tall on steep slope  
 photos of hillside in forest understorey. Trunk  
 wood ca. 1 inch diameter at base with two  
 USM F major axes above; branches mostly  
 ECON-2 NY plagiotropic; with few orthotropic short  
 MO shoots and suckers from trunk. Leaves  
 U covered with lichens and liverworts on upper  
 INPA surface. Sterile. Voucher for transpiration  
 US data and wood sample (wood from smaller  
 CR of 2 major axes). Transpiration data taken  
 from tagged branches - leaves monitored +  
 collected separately in individual envelopes.

11251 *Justicia* sp. ACANTH.  
 (3) herb w/ decumbent stems rooting at the  
 nodes; leaves shiny, purple-black above  
 11/10/82 → Lyon and deep purple beneath. Sterile. Voucher  
 USM F for live material. det D. Wasshausen 1982  
 US

COL K GR AU 11252 *Pilea cUSHIENSIS* Killip PET. N. HESSOLD 2000 URTIC.  
 MO NY (10) herb on large boulder; terminal flowers pale green;  
 INPA US producing numerous stoloniferous, flowering branches  
 F

DEC 9 1981

at base with erect inflorescences,  
flowering stolons purple, with white  
flowers. Terminal flowers ♂, stoloniferous fls. ♀

11253 ~~Coccythium~~ Psychotria emetica L.f. RUBIAC.  
F (2) herb 60 cm. tall; mature fruits sky blue  
USM erect det. P. Matekaitis 1982

11254 Zebrina pendula Schnizl. COMMEL.  
(3) trailing herb in forest; leaves variegated, ~~♀~~  
F dark green with pair of silvery stripes,  
USM dark purple beneath; Not cultivated;  
US flowers pink. ←

Diastema RACENIFERUM BENTH.

11255 Episcia L.E. SKOG (US) 2001 GESNER.  
(2)(3) rosulate herb on steep slopes; leaves light  
USM green throughout; peduncle dark red-  
F purple throughout; calyx pale green,  
US corolla tube white w/ violet lobes and  
white throat.

Diastema

11256 Episcia GESNER  
(3) rosulate herb on steep slopes; leaves  
USM purplish-green above and red-purple below;  
F peduncle dark red-purple throughout; calyx  
US creamy white w/ purple lobes; corolla  
tube white w/ pale blue violet lobes,

throat white with dark purple spot at base of each lobe.

11257 Anthurium Arac.

(4)

live → Lyon  
USM MO  
fb F K

Herb on vertical limestone cliffs. Leaves pendulous, shiny. Peduncle, spathe + spadix pale green. = Forest.

11258 Anthurium corallinum Poepp.

F (2)

voucher  
live → ~~Kent~~

Herb on limestone rock outcrop in forest. Lvs. shiny, both sides. (= 7567)

11259.

(1)

F

Brown fungus on fallen rotting log in forest. Fungi

11260.

F (1)

Delicate erect fungus on leaf litter in forest. "Branch tips" white.

11261.

(1)

F

Erect fungus on rotten log in hillside forest. ~~Lower~~ Lower half dark brown. Apical half white. Fungi

DEC 9 1981

Jardín Botánico de Tingo María  
Alt. 680 m. 9 Dec 1981.  
Coll. T. Plowman + M. Ramirez R.

11262. Colathea inocephala Marant.

(2) Cult. herb. Lvs. with dark green  
stripe at midrib. Bracts yellowish  
brown. Fls. pale yellow. From Castillo Grande.  
n.v. bijao pintado

USM  
F

F-2 11263. Pithecoctenium crucigerum (L.) A. Gentry Bignon.  
USM (2) Liana 10 m. tall, not culti-  
MO + 3 (fruit) Voted. Fls. pale yellow. det. A. Gentry  
seed: Lyon ARB. 1982.

11264. Celtis iguanea (Jacq.) Serg. Ulmace.  
(3)

Armed tree let 5 m. tall, not cultivated.  
Fls. green.

fotos  
USM  
F  
u

omit  
use: ~~resin~~ latex orange. applied on piece  
of cotton to bad tooth to extract  
it. Tooth comes apart in pieces.  
Have to apply 6 times a day for one  
month. this for "incisa"

11265. Mascagnia macrophylla Rusby Malpigh.  
(3) Woody liana 8 m. tall in thicket.  
USM Buds cream. Inhabited by ants.  
F det. WPA W. A. Anderson 1985.  
MICH

*Matisia cordata*

*Thevetia peruviana*

*Theobroma cacao*

*Pourouma cecropiifolia*

*Ormosia* sp. ✓

*Cassia Ruiziana*

*Ochroma lycopus*

11266. Triplaris Polygonac.

F (2)  
USM Tree 8 m. tall inhabited by  
fierce biting ants. Stipule yellowish  
green. Old infl. brown.

11267. Corydendron orinocense Karst. Euphorb.

F (2)  
USM n.v. "moena mulata"  
Tree 18 m. tall x 18 cm DDH.  
Bark shiny blackish brown, exfoliating  
in patches showing light green  
bark beneath. Fruit said to be  
4 valued, collected from ground.

11268. Cestrum racemosum R. + P. Solanec.

F (2)  
USM Tree 18 m. tall x 20 cm DBH.  
Fls. on long terminal inflorescences,  
pale yellow. Lvs. collected from  
younger tree.  
n.v. "oculez blanco"

11269. Dussia TESSMANNII HARMS Legum.

F (2)  
USM n.v. chinto guiro  
Tree 20 m. tall x 25 cm DBH.  
Frs. orange, collected beneath  
tree. DET. C. H. STIRTON 1988  
Sep. fruits.

11270. Batocarpus amazonicus (Ducke) Fosberg Morac.

(3) Tree 20 m. tall with white latex.

USM Lvs. + male infis. collected from  
F ground beneath tree.  
of tree u  
N.v. "leche casc." det. C. C. Berg 1982.

11271. Erythroxylum coca Lam.

Erythr.

(5) Plant 1: Transpiration data voucher.

F Shrub 2.5 m. tall cultivated in shade  
ELON-2 of Ochroma pyramidale. Fls. creamy  
fotos white. FRs. shiny red.

11272. Erythroxylum coca Lam.

Erythr.

F (6) Plant 2: Transpiration data voucher

ELON-2 Shrub 2 m. tall cultivated in shade  
of Ochroma pyramidale. Fls. creamy  
fotos white. FRs. shiny red.

11273. Sclerobium crysophyllum P. + E. Legum.

(5) Tree 15 m. tall x 20 cm DBH.

USM young fruits green. Planted from  
US-2 seed brought from Acazaca  
K collected from wild tree. 8 years  
old.

N.v. "huairuru."

det. C. Negoda 1983.

DEC 9 1981

11274. Mauria suaveolens Poepp. Anacard.

F (6)  
USM K  
MO U  
Tree 12 m. tall x 15 cm DBH.  
Not planted. Buds creamy white.  
Twigs, petiole & rachis red.  
det. E. Renteria-Arreaga 1983.

11275. NECTANDRA RETICULATA (R. & P.) Mez Laurac.

F (2)  
USM  
1001  
"n.v. moena" det. J. Rohwer 1989  
Tree 12 m. tall x 15 cm DBH.  
Young fruits green.

~~PERU: Dept. Huánuco, Prov. Leoncio Prado.~~

~~DEC 9 1981 Hillside opposite airport. Tingo Maria  
Alt. 700-750 m. 9 Dec 1981. \*~~

11276. Tynanthus polyanthus (Burr.) Sandw. Bignon.

F (4)  
USM K  
MO  
Liana in hillside forest.  
Fls. white.  
"n.v. cleobhuasco." det. A. Gentry 1982.

11277 Erythroxylum olei Oeschulz ERYTH.

(6)  
wood  
USM  
F  
U  
small understory tree ca. 3-4 meters tall  
with a 1.5" diameter bole and four  
major axes diverging ca. 1 ft from soil.  
located on steep slope immediately below  
large limestone boulders. Wood and  
TRANSPARATION Voucher. STERILE.

\* Coll. T. Plowman, M. Ramirez R. &  
P. M. Rury.



DEC 9 1981

- 11278 Erythroxylum ulei O.E. Schulz ERYTHROX.  
(5) small, understory treelet ca. 2.5 meters  
wood tall and sparsely branched with single trunk  
ca.  $\frac{1}{2}$ " diameter and predominantly  
F plagiotropic branches. Habitat identical to  
ECON-2 #11277 and also located immediately below  
U large, limestone boulders. Wood and  
Transpiration Voucher. Sterile.
- 

DEC 10 1981

Peru: Dept. Huánuco. Prov. Leoncio  
Prado. Tingo María. Jerdín Botánico  
de Tingo María. Alt. 680 m.

10 Dec 1981.

coll. T. Plowman and M. Ramirez R.

11279. Piper callosum R. & P.  
F (3) Low shrub. Spikes green. Lvs. shiny  
USM above. n.v. "guayusa" det. R. Callejas 1982.  
K

11280. Greniera americana L. Rubiac

F (3) Tree 20 m. tall x 20 cm. DBH.

USM Corolla creamy white, ~~with~~ yellow  
GB at throat, turning yellow.

fibers n.v. "huila" } fruits used as black dye.  
"jaguo" } green fruits are boiled with  
water. Used to dye the  
hair, paint the body & dying fibers.

DEC 10 1981

11281. Mucuna

Leg.

(2)  
F 2  
USM

Herbaceous vine in thicket.  
Petals deep purple. Filaments tube  
cream. FRS. green. Not planted.  
N.v. "pallares".

11282. NECTANDRA TURBACENSIS (H.B.K.) LAURAC.

DET. J. RÖHWER 1989

NEES

F (2)  
USM

N.v. "moena"

Tree 15 m. tall x 25 cm DBH.

FRS. shiny, brown. Not planted.

11283. Cayaponia glandulosa (Aep. + Endl.) Cogn. ~~Leg.~~

F (5)  
USM  
K

NY  
INRA

Herbaceous vine in ~~Leucosia~~  
Fls. yellow green. det. C. Jeffrey 1983.

DEC 10 1981

1 Tingo Maria. Mercado Modelo.  
"Central market" 10 Dec 81

Oreocallis mucronata (Willd.) Sleumer

✓ 11284. Embothrium det. H. Sleumer 1982. Proteac

F (2)  
USM

N.v. "picahuej blanco"

"Herb" consisting of flowering  
tips of shrub collected in  
"tierra fria". Stems + petioles  
rusty red. Fls. creamy white  
throughout.

Medicinal. Taken for inflammation  
of the ovaries.

DEC 10 1981

11285. Prosopis strombulifera (Lam.) Benth. Legum.  
 (1) n.v. "suerte de Margarita"  
 F Yellow fruits sold as good luck charms. Native to Argentina.

11286. Allium ampeloprasum L. Ampeloprasum Group  
 (3) "ajo macho" ~~se~~  
 1 lb. F Single cloved garlic sold as medicine. grated and taken in baños for a variety of ills. (= 13032)  
 hb.: F  
 BH

11287. Legenaria siceraria (Mol.) Standley  
 (3) n.v. "puro puro"  
 TB. 46 gowds for coca chewing.  
 \$1000 each.

NY-2 GH  
 MO  
 K  
 GB  
 U  
 INPA-2  
 LA

DEC 11 1981

PERU: Dept. HUANUCO: Prov. LEONCIO PRADO.  
 3 km S.E. of Pucayacu, on road from  
 Tingo Maria to Tocache Nuevo. 11 Dec 1981  
 (ca. 75 km NE of Tingo Maria)  
 Coll. T. Plowman and P. M. Rury.

- 11288 Cyperus giganteus Vahl CYPER.  
 (20) herb ca. 2.5 meters tall in low lying,  
 USM open, Aguaje swamp, forming pure  
 F-2 stand.

→ E. ~~scutellatus~~ acutengula Roxb. det. Koyama 1983

- 11288 A. Eleocharis fistulosa (Poir.) Link. Cyperac.  
 (4) In swamp under Cyperus giganteus  
 F NY MO. INPA

DEC 1 1 1981

PERU: Dept. SAN MARTIN: Prov. MARISCAL  
CACERES. 24 Km NW of PUCAYACU on  
road from Tingo Maria to Tocache. Alt. 545m  
(ca. 101 km NW of Tingo Maria) 11 Dec 1981.  
Coll. T. Plowman + P. M. Rury

11289

BOMAREA dolichocarpa Killip AMARYL.

(4) F

Seed USM  
AIF GB  
Selby 8260 NY  
Lyon  
Santa

twining vine in Cecropia trees along  
roadbank, Inflorescence ca. 50 cm  
long and pendulous from tree; valves  
of fruit red-purple and recurving to  
reveal bright red, fleshy seeds.

Inflorescence terminal w/ 8 branches.

det. T. Plowman 1984.

DEC 1 1 1981

PERU: Dept. SAN MARTIN: Prov. MARISCAL  
CACERES. 160 Km NW of Tingo Maria on  
road to Tocache, 15 km. south 11 Dec. 1981  
of Tocache.

11290

FARAMEA Psychotria capitata R. & P.  
subsp. capitata var. capitata RUBIA.

(6) F

USM  
K

NY  
MO  
& small tree 5 m. tall in moist hillside forest  
immature fruits deep purple det. P. Matekatis 1983

11291

Clidadium Ichthyothere  
peruviana (P. & E.) Baker COMP.

F (3)

USM  
US

weak shrub 1.5 m. tall on moist, open road  
bank; flowers white. det. M. D. Dillon 1982.

11292

Piper augustum Rudge PIPERAC.

(4) F

USM  
NY  
K

weak treelet 3 m. tall on steep  
wet hillside in forest; Inflorescences  
pendulous, dark green, red-purple peduncle

DEC 11 1981

Capitatus Drake det. B. Stein '88.  
macrophyllus (G. Don) Wimm.

11293 Centropogon ~~Aggregatus~~ LOBEL

(2) F herb 60 cm tall in understorey of wet,  
seed live USM hillside forest. Bracts + fruits green.  
Latex white, turning orange.  
det. P. Matekaitis 1983

11294 Xanthosoma stenospathum Madison ARAC.

(2) erect, terrestrial herb in wet hillside  
F forest. Peduncle pale green; female part  
Mo of spathe olive green w/ dark purple  
live: SEL: splotches, apical portion pale green;  
82-556 spadix creamy white. det. T. Plowman 1982.

11295 Anthurium ARAC.

(2+) terrestrial herb ca. 1 meter tall on steep  
F hillside in wet forest. Spathe and  
Mo spadix pale green. Prophylls, peduncles and  
petioles reddish purple, especially towards  
base.

11296 Besleria barbata (Poepp.) Hanst. GESNER

(2) erect herb in wet hillside forest, 80 cm.  
F tall, buds fleshy and orange det. L. Stog 1985.  
US

11297 Psychotria pongoana Standl. RUBIAC  
det. P.M. 1982.

(4) shrub to 3 m. tall, rachis and peduncle  
USM NY green, bracts dark purple, corolla white,  
F fruits dark blue purple. (wet hillside forest)  
K

- 11298 <sup>u</sup>SARAVIA biserrata (R. + P.) Spreng. DILLÉN.  
 F(2) shrub 3 m. tall in clearing in hillside  
 USM forest. Petals white, stamens yellow.  
 det. D.D. Soejarto 1982.
- 11299 Dieffenbachia ARAC.  
 (3) herb to 2 m. tall in steep hillside forest  
 live → Lyon Spathe green, exposed part of spadix  
 USM flesh colored. Latex milky, sap with odor  
 F-2 of skunk. Seedlings w/ leaves dark green  
 IK w/ central white stripe (not collected).
- 11300 Pitcairnia corallina Linden + André BROMEL.  
 (3) Terrestrial herb forming clumps on  
 live → SEL<sup>87-58</sup> steep slopes in understory of wet,  
 LYON hillside forest. Inflorescence  
 USM basal, pendulous. Peduncle and rachis  
 F reddish green, pedicels recurved.  
 US Sepals greenish purple, fruits greenish  
 purple. Only one plant seen fertile.  
 det. L.B. Smith 1984.
- 11301 Solanum nemorense Dunal SOLAN.  
 (2) Armed shrub 60 cm. tall margin of  
 USM hillside forest. Flowers pendulous,  
 F petals light green.  
 det. M. Nee 1982.

- 11302 Capparis sola Macbr. CAPPAR.  
 (3) treelet 4 m. tall in hilltop forest;  
 USM fruits pendulous, dark reddish-purple.  
 F Fruits up to ca. 6 cm long.  
 MO

- 11303 Psychotria microbotrys Ruiz ex Standl. RUBIAC.  
 (3) low shrub to 70 cm. tall in wet, hillside  
 USM forest. Pedicel, peduncle and leaf  
 F underside reddish purple. Corolla white,  
 K immature fruits green.  
 det. P. Matekaitis 1983

- 11304 Solanum SOLAN.  
 (2) erect herb with trailing stem rooting  
 USM at the nodes, in wet hillside in forest.  
 F Flowers pale green, anthers yellow.

- 11305 Solanum SOLAN.  
 (2) erect herb at forest margin on moist  
 USM roadbank, ca. 1 meter tall, petals cream  
 F immature fruits green

- 11306 Cestrum vacuosum R. + P. SOLAN.  
 (4) small tree 6 m. tall, d.b.h. 5 cm.  
 USM flower buds greenish yellow.  
 F  
 MO  
 K

DEC 11 1981

11307 Psychotria racemosa (Aubl.) Willd. RUBIAC  
(3) shrub ca. 2 m. tall in hillside  
USM F K forest. Immature fruits shiny green.  
det. P. Matekaitis 1983

11308 Tococa quadrilata (Naud.) Macbride MELASTOM  
(6) erect herb ca 1.5 meters tall, with  
USM U K trailing stem rooting at the nodes.  
F MO Petals pale pink; calyx basally  
US pale green, apically rose.  
det. Wurdack 1982.

11309 Anthurium croatii Madison ARAC  
(2) terrestrial herb on steep slope in forest,  
USM F Acaulescent. Petiole and peduncle  
terete; Spathes reflexed and green,  
spadix brown. Immature fruits  
reddish purple det. T. Croat 1982.

11310 Homalomena ARAC.  
(10) herb to 1.2 m. tall forming large  
F clumps on wet roadbank at forest  
SEL margin. Inflorescences pendulous  
MO at base of plant. Spathes remnants  
K reddish purple; immature fruits reddish,  
USF white within.  
" (cf. #11640A)



✓ 11311

Hepatic.

- (3) leafy liverwort growing on tree trunks  
F and on dead branches in wet, hillside  
forest.

✓ 11312. Becleria

Gesner.

- (1) Herb 60 cm. in wet hillside  
F forest. corolla orange.

DEC 12 1981

PERU: Dept. SAN MARTIN: Prov. MARISCAL  
CACERES. Distrito Tocache Nuevo. <sup>10 km. west</sup> ~~of~~ <sup>of</sup> ~~Tocache Nuevo~~

Puente Palo Blanco, Rio Toache. Altitude  
<sup>Trail to Casaputo</sup>  
550-650 meters. 12 December 1981.

Somewhat disturbed primary forest on  
steep hillsides.

Coll. T. Plowman, J. Schunke V., & P.M. Rury.

11313 Monotagma SPATHULATUM HAGBERG MARANT.

- (3) erect herb in forest, calyx and corolla  
F pale green, bracts green, staminodes white.  
USM det. M. HAGBERG 1990  
GB

11314 Micrandra siphonoides Benth. EUPHORB.

- (2) tree ca. 30 meters tall, 50 cm. d.b.h.,  
USM buttresses to 1 meter tall, abundant  
FRS. F milky latex. leaves and fruits collected  
ECON from ground beneath tree.

n.v. "higrilla caspi" det. M. J. Haft 1982.

DEC 12 1981

- 11315 F Erythroxylum macrocnemium MART. ERYTH.  
(12) <sup>USM</sup> <sup>GH</sup> <sup>NY</sup> <sup>GB</sup> <sup>K-2</sup> <sup>U</sup> unbranched treelet 4 meters tall in forest understory, stem diameter ca. 1.5 cm. Stipules green and turning reddish brown, caducous. Pedicel cream, calyx yellow w/ white margins, petals pale orange. Bark smooth, white, with longitudinal lenticels and algal patches  
photo wood fls. (A) Analysis  
11315A. photo same - second plant
- 11316 BASIDIOMY.  
(1) F basidiomycete on rotten branch of forest floor; pale brown above, dark brown beneath.
- 11317 Fungi  
(1) F erect, branched fungus on fallen log, thallus black with white tips.
- 11318 Fungi  
(1) F erect fungus on fallen log in forest, thallus off white, black within.
- 11319 Tecoma quadriata (Naud.) Macbr. MELASTO.  
(3) shrub 1 meter tall; calyx pale green, petals white w/ pink tinge, filaments and style white, anthers pale yellow, ovary turning pink then purple black.  
seed - FTR <sup>USM</sup> <sup>F</sup> <sup>US</sup> aut plant.

SEL 82-45

DEC 12 1981

11320 Monotagma angustissimum Loes. MARANT.

(13) herb up to 2 meters tall, forming large clumps in cleared area on hilltop.

photo (A) → K Leaves medium green and somewhat shiny  
 seed - Lyon Above; dull, pale green below; w/ yellow  
 live - Lyon midrib. Peduncle olive green, rachis pale orange,  
 USM NY bracts carmine-red with white tips.  
 GB U  
 F NY Calyx pale pink, corolla white, staminodes  
 K P white, callose staminode w/ one pink spot.  
 MO INPA Fruits yellow

11321A. Insects - spider + 2 beetles

11321

Fungi

(1) F metallic blue mushroom (basidiomycete) with brown coloration on top of cap

✓ 11322

(A)

(F)

yellow, fleshy petals - flowers collected  
 from forest floor, beneath tree  
 ca. 16 meters, 30 cm. dbh with fibrous,  
 stringy bark.

11322A

(F)

Clusia

11323.

Bryoph.

F (2)

bryophytes and lichens on bark of #11322

11324

Hypolytrum longifolium

CYPERAC.

F USM (2)

1 meter tall on steep bank above trail  
 det. D. Adams 1983.11324A. Piper metellicum?

live → Lyon Shrub 1 m. tall.

DEC 12 1981

11325 Joosia dichotoma (R. & P.) Karsten RUBIAC.  
(4) treelet 3 m. tall, immature fruits  
USM F green det. P. Matekaitis 1983  
NY UB  
Gr

11326 Psychotria sp. = Cephaelis dolichophylla Standl. RUBIAC.  
F (4) treelet 4 m. tall; Inflorescence erect,  
USM K peduncle dark green, bracts reddish-  
NY purple, corolla white. det. P. Matekaitis 1983  
det PM 1984

11327 Psychotria trichocephala Poepp. & Endl. RUBIAC.  
(5) F shrub to 1 meter tall; Bracts dark, red  
seed USM K purple, ripe fruits sky-blue.  
NY U det. C. Hamilton 1982

11328 Maieta guianensis Aublet var. guianensis MELASTOM.  
(3) F shrub 1 meter tall, immature fruits red.  
seed USM US Mature fruits not seen. = not outplant.

11329 Heliconia chartacea Lane ex Barrios MUSAC.  
(12) Erect herb up to 5 meters w/ 2-3 stalks.  
(A) flura. Petioles 39-48 cm, Blades 118-120 cm.  
USM Blades transversely split along veins into  
F-5 numerous segments. Sheath, petiole and  
GB-5 midrib slightly pruinose. Peduncle  
dark red-purple, inflorescence pendulous  
(A) DUKE w/ dark red rachis and spiral bracts.  
Bracts dark red w/ hyaline, pale green  
margin and pruinose. First bract is  
sterile - bracts inhabited by ants.

Pedice, ovary cream colored; perianth cream at base and yellow green apically. Immature fruits cream colored.

- 11330 Miconia cuneata Triana ex Cogn. MELASTOM  
(5) treelet 4 meters tall; Inflorescence axis deep purple, branches reddish purple, fruits blue violet, black at maturity. <sup>det. Wurdack 1982.</sup>  
seeds USM US MO K  
F

det. Tryon 1986.

- 11331 Trichipteris pilosissima (Baker) Barr. Fern  
(12) tree fern ca. 3 meters tall, trunk ca. 4 cm. d.b.h. Frond ca. 222 cm long with up to 9 pinnately compound pinnae per side of rachis. Pinnules pinnately dissected. Fertile fronds very brittle. <sup>det. R. G. Stolze 1982.</sup>  
USM.  
F-3  
100% NY  
GH-2 AAU  
U  
LP

- 11332 Myrcia bracteata (Rich.) DC. MYRTAC.  
F(6) NY treelet 3 meters, new leaves red; flowers white, fruits blue-black. <sup>det. U. Lendrum 1982.</sup>  
USM NY MO  
K

- 11333 Eschweilera sp. LECYTHID.  
F(3) fruits collected on ground in forest on ridge top. <sup>det. Mori 1982.</sup>  
NY

- 11334 Bryoph  
✓(6) bryophytes on leaves of Erythroxylum macrocnemium, # 11315 (ibid).  
F

DEC 12 1981

11335

(4) F

Bryoph.

bryophyte forming carpet on fallen log

11336

(2) F

Bryoph.

bryophyte forming carpet on fallen log  
(same log as # 11335)

11337

(2) F

Leucobryum martianum (Hornsch.) Hampe  
; Micropterygium trachyphyllum Reimers Musci  
moss w/ sporophytes, forming carpet  
on same log as # 11335 + 11336  
det. W.C. Steere 1984

11338.

(1) F

Marasmiellus helminthocystis Singer/Fungi  
delicate white mushroom on rotting  
stem on forest floor det. P. Singer 1982.

11339

(9)

Tetrarichidium macrophyllum M. Arg. EUPHORB.

K  
JWPA  
H  
NY  
ISM  
F-2  
MO  
DAV

tree 7 meters, Abundant white latex in  
trunk, fruits green w/ bright red seeds  
d.b.h. ca. 6 cm. Flowers greenish yellow.  
det. M. J. Huft 1982.

11340

(4)

USM  
F  
NY  
MICH

~~Eugenia~~ Calyptranthes det. R. Foster 1987 MYRTAC.  
shrub ca. 4 meters tall, immature fruits  
green. det. L. Lendrum 1982.

11341

(4)

Tococa sp. MELASTOM.  
shrub 2.5 meters; Inflorescence rachis  
seeds FIG dark red, mature fruits purple-black  
(ant plant) det. Wurdach 1982.

U  
F US

DEC 12 1981

11342 Amaoua guianensis Aubl. RUBIAC.  
 (6) shrub 4 meters, flowers white, sepals  
 yellow green det. P. Matekaitis 1982  
 USM K  
 F Y INPA  
 NY MO

11343 Heliconia schumanniana Loes. MUSAC.  
 HELICON.  
 (2) erect herb 2 meters tall in clearing,  
 culms w/ 8-12 leaves. Inflorescence  
 erect, distichous, bracts yellow in  
 basal  $\frac{2}{3}$ , red in apical  $\frac{1}{3}$ .  
 Pedicel yellow orange; basal  $\frac{1}{2}$  of ovary  
 white, apical  $\frac{1}{2}$  green; perianth  
 orange. det. L. Andersson 1982.  
 Live  
 → Lyon OK  
 USM  
 F

11344. Miconia abbreviata Markgraf MELASTOM.  
 (4) shrub 3 meters tall; flowers in bud.  
 USM  
 F US

11345 Plowmania perforans Faden COMMEL.  
 (2) rosette herb on steep banks along  
 quebrada in humus. Leaves dark,  
 velvety green above, midrib white,  
 pale green below. Adventitious  
 roots on stem yellow brown.  
 Peduncle and bracts greenish-white.  
 Bud creamy-white. det. R. Faden 1982.  
 live → Lyon  
 fotos Faden  
 F  
 US

11345A.  
 Live → Lyon Young ferns

Schizaeac.

DEC 12 1981

11346

Aphelandra cf. jacobinioides

ACANTH.

(3)

live → Jan  
USM  
F  
US

shrub to 1 meter tall; Leaves dark green above, midrib and lateral nerves white, red-purple beneath. Bracts rose-pink; corolla rose-pink in basal  $\frac{1}{2}$ , apically white. Fruits green at maturity.


11347

Anthurium pachylaminum Croat

ARAC.

(5)

USM-2  
F-3

rosette herb on fallen log in forest. petiole {  Peduncle bract, olive x.s. green; fruiting spadix pendulous. det. T. Croat 1986.

11348

Clidemia allardii Wurdack

MELAST.

(4)

US

F

seeds - FTG

K

USM

shrub 1 m. tall, fruits blue-black. det. Wurdack 1982.

11349

Solanum

SOLAN.

(2)

USM

F

shrub 1 m. tall, inflorescence pendulous, corolla greenish-white.

11349 A. Laurac.

11350

Cordia nodosa L.

BORAG.

(3)

LYON

shrub 2 m. tall, mature fruits white.

seeds → FTG N.V. "SÚPAY-CHÁCARA"

USM

F  
GB



DEC 12 1961

11351 Psychotria lupulina Benth. RUBIAC.  
(3) shrub to 1 meter, flowers and bracts  
USM-2 white. det. P. Matikaitis 1985.  
F

11352 MEROSTACHYS DET. JUDZIEWICZ 1990 GRAMIN.  
(3) climbing bamboo ca. 6 meters tall,  
USM F internodes 50 cm. Sterile.  
US

11353 Bactris actinoneura Drude PALM.  
(5) palm ca. 3 meters tall w/ spinose rachis  
seeds → fruits black, inflorescence axillary  
USM 40w and pendulous. Trunk 2 cm. d.b.h.  
F K n.v. "ñeja"  
det. R. Foster 1984.

11354 Trichipteris nigra (Mart.) Tryon Fern  
(12) slender tree fern, 3 m. tall, trunk  
USM-3 2 cm. d.b.h. Leaf 1.55 meters, bipinnate,  
F GH-3 13 pinnae per side of rachis. Fronds brittle.  
Kobe NY det. R. G. Stolze 1982

11355 Octoblepharum pulvinatum (Dozy & Molke) Molke & Mieth. Bryophyt  
(3) moss on trunk of large tree  
F trunk (# 11314). det. W. C. Steere 1984

11356. Orthostichopsis tetragona (Hedw.) Broth. Bryoph.  
F (2) On fallen trunks in forest.  
det. W. C. Steere 1984

11357. Basidiomyc.  
F (1) Fungus on rotting log. Yellow brown throughout

DEC 12 1981

det. M.J. Bolick 1987.

Oenocarpus mapora Karst. sp. mapora

11358. Oenocarpus aff. bacaba Mart.

Palmae

(15)

Single trunked palm 16 m. tall.

USM-3

Trunk 14 m. tall x 8 cm. DBH.

F-5+

Crown sheath dark green 50 cm. long.

NY-4

Petiole 8-10 cm. long. Lf. blade

K-2

2 m. long with 75 leaflets per

U-2

INPA

side. Trunk previously felled during clearing.

det. S. Glassman 1983.

DEC 13 1981

13 Dec 1981. same locality.

11359. Hippotis sp. aff. brevipes Spruce

Rubiace.

(7)

(cf. H. villosa Simpson sp. nov. ined.) Treelet 5 m. tall x 4 cm. DBH.

FLs (A) K NY

Calyx dull red. Corolla carmine pink

USM

WB

Stipules spirally twisted at apex.

F

MO

(A) 7 K

ERYTHR.

11360. Erythroxylum macrophyllum Cav.

(8)

n.v. shac quina

photo  
wood

use: wood for crossbeams in house construction.

Treelet ca. 2.5 meters in forest along

USM

trail in semi-open, cutover area of

F

primary forest. d.b.h. ca. 2 cm. Wood

ECON-2

and transpiration voucher. Sterile.

U

Lvs. somewhat shiny, dark green above,

NY

pale, dull, glaucous green beneath.

Stipules reddish brown.

det. T. Andersonii Gray Davidse

CEL NY LP, US, WIS, K, ISC, MO ←

DEC 13 1981

11361. Drymonia semicordata (Poepp.) Wiehl. Gesner.

(2) Vine among understory shrubs  
seed → Wilton Schroeder at edge of clearing. <sup>Calyx</sup> bright red.  
USM US Fruits pale yellow. det. L. Skog 1984.

Peru: Dept. San Martin. Prov. Mariscal  
Caceres. Dto. Tocache Nuevo. Road  
to Shunté, east of Rio Tocache.  
13 Dec 1981.

DEC 13 1981

11362. Costus lasius Loes.

Zingiberac.

(3) Herb 80 cm. tall along trail in sun.  
USM Brechts golden yellow. Fls. golden yellow  
F throughout.  
u

11363. Malachra ruderalis Gürke

Malvac.

(2) weedy herb 60 cm. tall in oil palm  
USM plantation. Brechts green. Fls. yellow  
F throughout. det. P. Fryxell 1984

u 11364. Plukenetia lorentensis. Ule

Euphorb.

DAY NY (6) wiry vine in open thicket. Fls. + frs. green.  
USM FRs. 4-lobed, immature. det. M.J. Huft 1982.  
F det. H. Iltis

→ T. peruvianum

det. H. Iltis 1982

11365. Tripsacum australe Cutler + Anderson s. lat. Gram.

(18) Tall grass 4 m. tall forming dense  
USM-5 stand in ~~wet~~ field at edge of oil palm  
F-3

DEC 13 1981

plantation, area dominated by  
Pueraria. Spikelets apically green,  
basally red purple. Cultivated?

11366 Eugenia EGENSIS DC. MYRT.

F (5) NY small tree 6 m. tall, d.b.h. 5 cm,  
USM MICH mature fruits green det. L. Lendrum  
u DET. R. McVAUGH 1988 1982.

11367 Psychotria iodotricha Muell. Arg. RUBIAC.

F (4) shrub 2 m. tall w/ red-purple hairs  
USM everywhere; Bracts green to red-purple,  
NY corolla pure white.  
us

11368 Olyra caudata Trin. GRAM.

F (6) K grass 1.5 m. tall forming clumps; Spikelets  
USM Mo greenish-white, ripe fruits shiny dark brown  
ISC det. G. Davidse 1982  
us

11369

F (5) Mo small tree, 3 m. tall immature fruits light  
USM INPA green.  
NY

11370 Passiflora CAULIFLORA HARMS PASSIF.

F (2) woody vine climbing on trees in disturbed  
USM remnant of primary forest. Flower buds  
light green DET. L. ESCOBAR 1992

GB  
TAU  
P  
INPA  
COL  
G

11370A.

13181 Gentianac

(1)

Delicate saphrophyte in humus. Stem + ovary + corolla tube white. Corolla limb pale violet.

11371 Hirtella gracilipes (Hook. f.) Prance ROSAC.

(3) tree 6 meters tall, d.b.h. 4 cm.

Wood Vchr. Perianth pale green, filaments basally white, apically blue-purple. det. G. T. Prance 1982.

11372 Solanum aff. microleprodes Bitt. SOLAN.

(5) shrub 2m. tall along trail in forest

margin. Immature fruits green. det. W. D'Arcy 1986.

11373 Miconia nervosa (Smith) Triana. MELAST.

(3) shrub 1.5 m. tall, rachis reddish-purple;

seeds immature fruits red-orange, mature fruits blue-black (not myrmec) det. Wurdack 1982.

det. R. Foster 1984.

11374 Bactris simplicifrons Mart. PALMAE

(3) Understorey palm 2.5 meters tall. Fruits

green, turning red-orange. det. S. G. Harrison 1983.

det. A. Henderson 1987.

11375 Erythroxylum mucronatum Benth. ERYTH.

(2) Small tree ca. 5 meters tall, branched ca.

- photos 1 meter above ground to form 3 branches,

- wood diameter below branches ca. 3 cm.

- (A) fruits, Twigs dark, reddish brown; stipules dark

- analysis reddish brown; leaves dark, shiny green above

and shiny light green below. Flowers cream,

on one branch only. Fruits erect above the

leaves, immature - green. Transpiration Voucher.

DEC 13 1981

11376A. Syrphid fly  
+ other insects

11376

(20)

- wood
- photos
- (A) flowers
- fruits
- insects

USM

F

ECON

77F

Erythroxylum macrocnemium Mart. ERYTH.

unbranched shrub 1.5 meters tall in  
cutover primary forest. Leaves dark  
shiny green above, pale & green and  
dull below. Axillary glomerules. Stipules  
rusty brown and bracts rusty brown.  
Calyx greenish white, corolla creamy  
orange. Visited by wasp, syrphid  
flies, et al flies. Wood/Transpiration Vkr  
short-styled.

11377

(10)

- wood
- photos
- analysis
- seedlings

USM

F

ECON

U

WLS

NY

AAU

INPA

MO

COL

P

Erythroxylum macrophyllum Cav. ERYTH.

tree ca. 20 meters in cutover remnant  
of primary forest - ca. 10 cm d.b.h.  
Bark rugose, mottled, dark reddish  
brown - trunk 150 diametric ~~for~~ and  
unbranched for at least 10 meters.  
Wood uniformly cream colored when  
cut, turning reddish-orange after several  
hours with a cream colored outer ring of  
ca. 6 mm. Leaves dark green + somewhat  
shiny above, pale dull glaucous green below.  
Floral bracts and stipules dark rusty  
brown; abnormal, gall-infested  
flowers. Use: wood for cross-beams in  
house construction

n.v. shaguma

DEC 14 1981

PERU: Dept. San Martín. Prov. Mariscal  
Caceres. Distrito Tocache Nuevo. Quebrada de  
Huaquisha, right bank of Rio Huallaga. Alt. 500-  
600 m. Primary forest on flat ground along  
Quebrada. 14 DEC 1981. Coll. T. Borman, J. Schunke & P. M. Rury.

11378. Inga edulis Mert.

LEGUM.

(10) Tree 8 m. tall x 15 cm DBH

seeds K  
USM MO  
F U  
NY INPA  
cult? in pasture. Fruits suberect,  
then pendulous, yellow-brown at ma-  
turity. Aril white, sweet, edible.  
n.v. "ujino shimbillo" det. C. Mezger 1984.

11379 Spathiphyllum

ARAC.

(9)

herb on rocky stream banks. Spathe  
abaxially green w/ white margins, adaxially  
white, spadix cream.

USM  
F  
K  
MO  
u

DEC 14 1981 *Aegiphila haughtii* Mold. det. R. Foster 1987.

~~*Clusia dendron tessmannii* Mold.~~

11380

~~*Aegiphila*~~

Verb.

(5) NY  
USM K  
F P

treelet 3 m. tall w/ pendulous  
inflorescence and reddish purple calyx.  
Immature fruit green.

11381

U  
GH  
MO  
F

det. W. Alverson 1987  
*Quararibea* cf. *wittii* K. Schum. + E. Ulbr. BOMBA.

(15)

USM  
WIS  
BR  
K  
NY  
UNPA

wood  
fruit  
seeds

tree ca. 20 meters tall, trunk 15 cm  
d.b.h. Fruiting calyx basally yellow-  
orange, apically green, ripe fruit  
bright orange. Phloem rays dilated.  
n. w. "sachz sapotillo"

11382

*Randia armata* (Sw.) DC.

RUBIAC.

F (3)  
USM  
K

Armed shrub 2.5 m. tall w/ pendulous  
green fruits - fruits w/ pale brown dots  
det. P. Matekaitis 1982

11383

*Cryptochloa*

GRAM.

F (4)  
USM  
K  
US

grass growing in small clumps on forest floor.  
spikelets green.

11384

*Colytranthes plicata* McVaugh

MYRTAC.

F (5)

USM  
NY  
MCH  
K

treelet 2.5 m. in forest understory.  
Inflorescence cauliflorous, buds light  
brown. LEAVES AROMATIC  
det. L. Lindrum 1982.



- 11385 Clavijsa TARAPOTANA Mez THEOPHRAST.  
 F(2) unbranched treelet 2.5 meters tall;  
 USM fruits cauliflorous, greenish yellow  
 GB when unripe. DET. B. STAHL 1989
- 11386 Cleome longipes Lamb. ex DC. CAPPAR.  
 F(8) K sprawling, armed liana in open thicket along  
 USM GB small stream. Sepals and petals <sup>yellowish</sup> green;  
 NY INPA anthers mustard yellow. det. T. Plowman 1982.  
 WIS LA  
 MO
- 11387 Basistemon Klugii K. Barringer sp. nov. SCROPH.  
 F(10) K Shrub to 0.5 meter growing under  
 USM GB fruit trees in open pasture. Corolla  
 NY INPA white; mature fruit green; ~~2 seeded~~  
 MO BR
- 11388 Sapium peruvianum (Machbr.) Jabl. EUPHORB.  
 F(8) tree 7 m. tall w/ storied branches,  
 USM INPA trunk 8 cm d.b.h. Flowers yellowish  
 K DAV green. Fruits green. White latex.  
 NY GH U  
 det. M. J. Huft 1982. <sup>in</sup> pasture.
- 11389 Pachystachys lutea Nees ACANTH.  
 (3) slender shrub on river bank, bracts  
 F yellow-orange, corolla white.  
 US det. D. Wasshausen 1982.  
 US4?  
 K

11390

(4)

F  
USM  
MO  
KLYCIANTHES INAEQUILATEA (RUSBY) BITTER SOLAN.

Shrub 1m. tall in forest understorey.

Petals cream, anthers bright yellow-orange  
DET. M. NEE 1990

11391

F(3) P  
USMOxalis ortgiesii Regel

OXALID.

herb on forest floor; stems succulent and reddish-purple. Flowers yellow.

11392

(3)

live:  
USM  
F  
MOAnthurium brevipedunculatum Madison

ARAC.

climbing herb on small tree trunk with adventitious roots completely encircling the trunk horizontally. Fruiting spathe dark purple, fruits reddish-purple.

11393

(12)

fruits  
separateNY  
MO  
INAP  
GH  
K  
USM  
F  
LCasearia fasciculata (R. & P.) Steumer <sup>det. Steumer 1982.</sup> Flacout.

tree ca. 20 m. tall, trunk 18 cm. d.b.h.

leaves dark, shiny green above and shiny, light-green below. Fruits cauliflorous on the larger branches, green. Fruits spherical, up to 8 cm diameter.  
"H.V. 'che'che" - edible fruits.

11394

(6)

bulbs

fotos  
USM  
F  
NY  
FLAS  
K  
NYEucharis plicata Meerow, sp. nov.TYPE

AMARYL.

bulbous herb on forest floor forming small clumps. Perianth tube and sepals pure white; corona pale greenish yellow at base, apically white.

- 11395 Solanum grandiflorum Ruiz + Pavon SOLAN.  
 (12) tree 5 m. tall with spreading crown on  
 open riverbank. Inflorescence et al.  
 fruits separate parts with pale brown pubescence. Flowers  
 seed light blue-violet, anthers golden-yellow.  
 MO  
 USM Fruits spherical, green, up to 5 cm.  
 F-2 in diameter.  
 BH  
 K  
 CORP  
 NY n.v. "juca huito" - juice of fruit + pith used  
 as remedy for "colosidades rojas de la vista".

- 11396 Rollinia mucosa (Jacquin) Baillon ANNON.  
 (10) cultivated tree 7 m. tall in pasture;  
 photo Tepals pale green, yellow at maturity;  
 fruits green; ovate 15 cm long X  
 seeds 13 cm. across, fruits turning golden  
 yellow when ripe. N.V. "ANNOÑA"  
 USM (DET. MAAS & NESTRA 1988)  
 F-2  
 U NY

- 11397 <sup>AAU</sup><sub>us</sub> Stenostaphaneus thyrsoides Lindau ACANTH.  
 (5) <sup>K</sup><sub>F</sub> subshrub 1 m. tall in primary forest,  
 photos Flowers light red-violet. det. D. Wesshagen  
 1982  
 A. PILOSA H.B.K. DET. F. GONZALEZ 1990

- 11398 Aristolochia truncata Field & Garden ARISTO.  
 (3) vine in open thicket; inflated part of corolla  
 USM yellow green, "hood" purple-brown, "lip"  
 F dark purple-brown and mottled with  
 K creamy yellow. Fruits immature, yellow-  
 green. det. K. Barringer 1984.

- 11399 Philodendron nervosum (Schult. + Schult.) Kunth / ARAC.  
 climbing vine on tree trunk; Spathe  
 basally pale green, distally ~~to~~ creamy  
 white. det. T. Croat 1982

- 11400 Erythroxylum fimbriatum Peyr. ERYTH.  
 tree ca. 6 meters with 3 major  
 branches ca. 1 meter from ground,  
 bole ca. 10 cm diameter below branches.  
 Branchlets light tan; leaves shiny,  
 dark green above, glaucous dull-green  
 below with distinctive central pannel  
 w/ finer vein reticulum than exmedial  
 portions of lamina. Wood and leaf-  
 transpiration voucher.  
 n.v. sech = coca"

- 11401 Toromopsis GUTTIF.  
 treelet 2.5 meters tall, flowers  
 creamy white, fruits dark red.

- 11402 Peschiera australis (Müll. Arg.) Miers / Apocyn.  
 shrub 2 m. tall in forest understory.  
 Immature fruits green. Milky latex.  
 det. M. Fallen 1982.

TABERNAEMONTANA VANHUERCKII MUELL. ARG. 1994

TROPHIS CAUCANA (PITTIER) C.C. BERG11403 Olmedia aspera R. & P. MORAC.

(7) Tree ca. 7 m. tall w/ storied branches,  
 seed NY trunk ca. 6 cm d.b.h. Bracts  
 INPA green, orange within. Fruits orange,  
 USM K succulent, one-seeded. DET. C.C. BERG 1992  
 F MO  
 U n.v. "ishanga masha"

11404 Ruellia tarapotana Lindau ACANTH.

(2) herb 60 cm tall on forest floor.  
 photo F US Corolla light violet w/ white eye.  
 det. D. Wesshagen 1982

11405 Geogenanthus sp. cf. G. poeppigii (Miq.) Faden var. COMMEL.

(5) rhizomatous herb w/ ascending stems;  
 live Faden leaves transversely corrugate, with  
 USM alternating longitudinal dark and light  
 F green stripes on either side of midrib.  
 K Flowers produced basally; buds white;  
 US fruits cream with dark purple blush.  
 U det. R. Faden 1982.

11406 Philodendron fibrillosum Poeppig ARAC.

(5) climbing herb on tree trunk; spathe  
 USM creamy white.  
 F MO  
 K  
 SEL

11407 Prestoea aff. ensiformis (R. & P.) H. E. Moore det. Gleason 1983.

(10) n.v. "shucshu" - leaves for thatch. PALM.  
 single trunk palm 4 m. tall, leaf 2 m. long  
 (blade) w/ 32 leaflets per side. Inflorescence  
 seeds (→ LYON) K  
 F-4 NY-4 on trunk ca. 1/2 way up, fruits red orange

11408. *Chondrodendron tomentosum* R. & P.

(15)  
 fotos  
 Chem. anal.

n.v. "amphivasca"

live  
 stems  
 seeds - Lyon

USM MO  
 F P  
 NY GH  
 K U  
 AAL INPA  
 WAG LP

Woody liana 8 m. high twining  
 up small branched tree, growing on  
 sandy bank of Quebrada in forest  
 margin. Bark dark brown, somewhat  
 rough, trunk 4 cm diameter, yellowish  
 when cut. Lvs. shiny green  
 above, white tomentose beneath.  
 Fruits cauliflorous on trunk or <sup>axillary</sup> on the branches, shiny, dark purple.

STK

Said to be the <sup>most</sup> active curare,  
 distinguished from the inactive  
 form by having yellow not rose  
 coloured pith.

→ Der Marderosian 7 Apr 82

→ *Ctenanthe* sp. nov. det. L. Andersson 198311409. *Marcanta* ~~grob.~~ sp. nov.

Marcant.

(4)

Herb in forest. Frequent.

fotos.  
 live → Lyon, FIG

USM

Bracts pale green to brownish.  
 Fls. white. Fruits pale green.  
 det. L. Andersson 1982.

win F  
 U  
 GB

DEC 14 1981

14 Dec 1981.

(MATISIA AFF. CORDATA HUMB. & BONPL. Macbride)

11410. Quararibea stenopetala (Standl. & Cuatr.) Bonpl. & C.

n.v. Sacha sapote det. B. Alverson 1985.

(4) Large tree 30 m. tall x 60 cm DBH. with  
seed → LGON buttresses 1 m. tall. Fr. dark brown with  
USM orange fleshy Lvs. + fruits from ground.  
F. → F some flattened dorsally, to 6 cm diam. x 5 cm. long.  
fruits → F (MATISIA) Macbride

11411. Quararibea stenopetala (Standl. & Cuatr.) Bonpl. & C.

(4) Sapling 3 m. tall under 11410.

USM Sterile. det. B. Alverson 1985.

F n.v. "sacha sapote"  
WIS  
BR

DEC 15 1981

Peru: Dept. San Martin. Prov. Mariscal  
Caceres, Distrito Tocache Nuevo.

Tocache Nuevo. Miramar, left bank  
of Rio Huallaga 1-2 km. down river from  
Tocache Nuevo. Coll. T. Plowman, J. Schunke, V.  
15 Dec 1981. 2nd P.M. Rury.

Connarac  
~~Polyg.~~

11412. Connarus punctatus Planch.

F (5) Climbing shrub 6 m. tall in forest  
USM remnant on riverbank. Fls. yellowish  
COL K brown, fragrant. det. T. Plowman 1982.  
ry.

11413. Frichitia? (P. & E.) RADLK. SAPIND.  
ALLOPHYLUS PANICULATUS Melz.

F (4) Treelet 4 m. tall. FRs. yellow when  
USM ripe.  
MO  
K

DET. R. E. GEREAU 1988

A. DIVARICATUS RADLK. [T. D. PENNINGTON 1994]

11414. MICROPHOLIS EGENSIS (A.DC.) PIERRE Sept.

F (4)

Tree 12 m. tall on riverbank.

USM

K

NY

Frs. broadly ovoid, light green. White latex.

DET. T. D. PENNINGTON 1987

11415. Bunchosia  
Byrsonima

Malpigh.

F (5)

USM K

NY

Shrub 3 m. tall in riverine forest. Frs. orange at maturity.

11416 Tragia fallax Muell. Arg. Euphorb.

F (5)

USM

LI

DAV

NY

Twining vine in open thickets along riverbank. Fls. + frs. green.

n.v. shic shic huasca - lvs.

highly irritating on contact

det. M. J. Huft 1982.

11417. Anthurium ERNESTII ENGL. DET. T. CROAT 1988

F (2)

USM

Epiphyte on tree trunk. spathe green, reflexed. Spadix brown.

Menisp.

11418. Chondrodendron tomentosum R. + P.

(15)

Woody liana 8 m. tall in forest margin on river bank. ~~Go~~ Bark dark brown.

wood chem. anal.

USM MO

F NY

LI TEX

GH

Cross section with dark rose pith, turning brown. Lvs. green shiny above, white tomentose beneath.

Fls. buds cream.

n.v. "ampihuasca"

J. Mardersian 7 APR 82



- 11419 Erythroxylum olei O.E. Schulz ERYTH.  
 (6) Diffused branched small tree  
 wood 3.5 m. tall, 3 cm. diameter at base.  
 analysis growing along trail in cut over area.  
 USM u Sterile. Transpiration voucher.  
 F  
 ECON-2

DEC 16 1981

PERU: Dept. San Martín. Prov. Mariscal  
 Cáceres. 2-4 km. west of Tocache  
 on road to Palo Blanco.  
 16 Dec 1981. Roadside thickets and  
 secondary forest. Alt. 500-550 m.  
 Coll. T. Plowman

11420. Cassia lucens Vog. Legum.  
 (4) NY Weak tree 4 m. tall. FRs. brown.  
 USM K  
 F  
 11421. Cissus Vitac.  
 (4) Weak vine in sunny thicket. Lf. under-  
 USM u sides + stems reddish purple. Fls. cream.  
 F FRs. still green.  
 MO

11422. Cissampelos Menisp.  
 (5) Extensive wingy vine in open thicket.  
 USM NY FRs. reddish at maturity.  
 F K u

11423. Inga edulis Mart. Legum.  
 (8) NY-2 Cult. tree 6 m. tall with spreading  
 USM crown. Corolla pale green. Filaments  
 F-2 K-2

DEC 16 1981

white.

nv. "guaba" - aril on seed edible.

11424. Phyllanthus

Euphorb.

F (3)  
USM  
AG4

weed on open roadside. Stems  
reddish. Frs. pale green.  
nv.

11425. Erythroxylum coca Lam.

Erythrox.

F (2)  
USM  
pols

Shrub 1 m. tall growing in  
~~the~~ young secondary growth.

11426. Croton polanostigma Kl.

Euphorb.

F  
USM  
K (3)

Frequent weedy tree, 4 m. tall.  
Immature fruits pale green.  
det. M. J. Huft 1983.

11427. Perizoma

Gram.

F  
USM  
(2)

Clumped grass in shade.  
Sp. lelets yellow. nv. "caricillo"

11428. Bauhinia longicaulis Spruce ex Benth. Legum.

F  
USM  
K (3)

Treelet 3 m. tall. Lvs. purplish  
beneath. Perianth purplish

brown. Filaments pale green.  
FRs. brown. det. C. Niezgoda 1982.

11429. Guatteria Annonac.

F (3)  
USM  
U Small tree with 3 trunks.  
3 m. tall. Buds yellow-green.

11430. Lonchocarpus nicou (Aubl.) DC. Legum.

F (4)  
USM  
K  
MEXU cult. Vining shrub 2.5 m.  
tall in open chacara.  
n.v. "barbasco" det. C. Niezgoda 1983.

11431. Pellicourea lasiantha Krause occidentalis Rubiac.

F (2)  
USM Treelet 3 m. tall: Infl. rachis  
reddish. FRs. black.  
det. P. Matekaitis 1982

11432. Psychotria barbiflora A. DC. Rubiac.

F (4)  
USM Shrub 1 m. tall in shade of  
secondary thicket. Fls. white.  
det. P. Matekaitis 1983

11433. Davilla kunthii St. Hil. Dilleniace.

F (2)  
fob USM Vine 3 m. + tall in thicket  
FRs. orange. det. P. Matekaitis 1984.

F 11434. Vismia Gentif.

USM (2)  
fob Treelet 3 m. tall in open sun.  
FRs. green.

DEC 16 1981

F 11435. Alternanthera sessilis (L.) R. Br. ex DC. Ameranth.  
 USM (3) Herb in wet margin of small  
 PH lake. det. J. A. Mears 1982.

F 11436. Eleocharis elegant (HBK.) R. + S. Cyperac.  
 USM (4) Sedge in edge of small lake.  
 MO Forming dense clump. det. G. Davidson 1982.  
 NY

F 11437. Azolla Azollac.  
 USM (5) Floating aquatic in standing water in  
 KOB E aguaje swamp.  
 NY AAU

F 11438. Monstera dilacerata (Koch + Sello) Koch Arac.  
 USM (2) Climbing vine on tree trunk in "agujal".  
 Spathe pale green. Spadix cream.  
 det. T. Croat 1982.

11439. Heliconia schumanniana Loes. Musac.  
 det. L. Anderson 1982  
 (4) Herb in rosette clump. Lvs dull medium  
 green above, shiny, pruinose beneath. Radius +  
 FRS → seeds lower 2/3 of bracts yellow-orange, apical 1/3 red.  
 USM LYPN  
 GB Pedicel yellow-orange. Perianth yellow-  
 LI DUKE orange. Ovary mostly white, apically green.

11440. Bunchosia armeniaca (Cav.) DC. Malpigh.  
 (5) n.v. "carmelo" china  
 F-2 Cult. - treelet 3m. tall.  
 USM Fls. yellow. FRS. red at  
 MICH maturity. In house yard in  
 fotos. K Tocacho.

DEC 16 1981 → Bunchosia glandulifera (Jacq.) HBK.  
 det. W. R. Anderson 1983.

PERU: Dept. San Martín. Prov. Mariscal  
 Dpto. <sup>Tocache Nuevo</sup> 15 km W. of Tocache Nuevo  
 (Caceres) a Cerro Sin Sin, ~~Cerro~~ Cerro Bamba-  
 marca. ~~&~~ Logged primary forest on  
 steep hillsides above Río Tocache. Alt.  
 ca. 550-580 m. 17 Dec 1981.  
 Coll. T. Plowman & J. Schunke V.

11441. Trichilia pallida Sw.

Meliac.

~~Flacourt~~

(4) Shrub 1 m. tall. Young fruits  
 pale green. det. T. Plowman 1984.  
 USM K  
 F MO

11442. Ruellia

Acanth.

(8) Herb 80 cm. tall near small  
 stream. Lvs. rugulose, dark shiny  
 green above, dark reddish purple  
 beneath. Corolla pure white. Mature  
 capsules black.  
 seed - <sup>Montg.</sup> (Lyon)  
 USM TEX  
 US NY  
 F U  
 AAU

11443. Napeanthus ROBUSTUS FRITSCH (Cresner)ec.

(3) Terrestrial rosette herb on  
 steep hillside. Corolla tube white, ~~pink~~  
 lobes pale violet. DET. L.E. SODG (US) 2001  
 seed-chi  
 US F  
 USM  
 US

11444. Opismenus hirtellus (L.) Beauv. Gram.

F (8) Sprawling grass in low flat  
 moist area in forest margin  
 USM K  
 US LP  
 MO AAU  
 ISC

Zapoteca amazonica (Benth.) H. Hern.

Calliandra amazonica Benth.

11445. ~~Bastillea~~ det. C. Niezgoda 1982. Legum.  
 F (5) Slender treelet 4 m. tall. Perianth pale  
 USM green. Filaments white in basal  $\frac{1}{2}$ ,  
 K red in apical  $\frac{1}{2}$ . Fns. dark brown.  
 NY  
 US

→ Psychotria pichisensis Standl. det. J. Kirkbride

11446. Psychotria carthaginensis Jacq. <sup>86</sup> Rubiac.

- F (8) Tree 8 m. tall in understory.  
 USM Mo Peduncle and rachis pale green  
 NY GB  
 US INPA. Calyx + corolla lemon yellow.  
 K

11447. Miconia brachybotrya Triana Melast.

- F (5) Shrub 2 m. tall along que-  
 USM K brada. Calyx pale green. Corolla  
 US white. det. Wunderlin 1982.  
 NY

11448. Encephalosphaera lasiandra Mildbr. Acanth.

- F (6) Armed herb 1 m. tall in low moist  
 USM K forest along quebrada. Bracts bright  
 US U pink. Corolla pink. det. D. Wasshausen  
 NY 1982.

11449. Sanchezia peruviana (Nees) Rusby Acanth.

- F (7) Shrub 2 m. tall in low moist  
 USM NY forest. Bracts dark red. Fls.  
 US GB pale yellow. det. D. Wasshausen 1982.  
 MO

11449A.

Bignon.

(2) L. Seedlings in forest.  
 live only on N.v. ajosacha

VEN  
CTES  
L  
DUKE  
UC

11450. Senefeldera inclinata Muell. Arg. Euphorb.  
(25) Tree 18 m. tall x 20 cm.  
diameter on steep hillside. Immature  
fruits green. Fruits 3 or 4  
celled, 18 mm long, 26 mm. diameter.  
n.v. "ituchi caspi" det. M.J. Huft 1982

GR  
S  
INPA  
WIS  
DOV  
AAU  
GB  
US  
TEX  
GH  
P-  
C

FR → (A)  
USM  
F-  
MO  
NY  
U  
K  
COL  
Z

(A) &gt; K

11451. Miconia bubalina (Don) Naud. Melast.  
(4) Shrub 2.5 m. tall in moist  
savanna. Lvs. dark green shiny above,  
dull, white beneath. Calyx and corolla  
creamy white. det. Wurdeck 1982.

USM  
F  
US  
K  
NY

u  
INPA

11452. Hirtella racemosa Lam. var. racemosa Chrysobalan.  
(4) Treelet 5 m. tall in forest  
understory. Immature fruits  
shiny green 28 mm long! det. G.T. Prance 1982.

USM  
F  
NY

11453. Foramea? Psychotria compta Standl. Rubiac.  
(8) Treelet 4 m. tall in moist  
savanna. Immature fruits pale green.  
det. P. Matekaitis 1983  
sp. nov. det. L. Anderson 1982.

USM  
F  
K  
NY

MP  
G

11454. Monotegma juruanum Loes. Morant.  
(4) Herb 1 m. tall in clumps in hill top forest.  
seed → Lyon Lvs. shiny, both sides. Bracts light  
brown. Fls. deep orange.

USM  
F  
GB


NY

- USM 11455. Oxyptrocarya poeppigiana Kunth Cyperac.  
 NY (4) Herb in forest floor. ~~Stems~~ Lf. bases  
 F and undersides reddish purple.  
 MO Infl. red-purple; frs. greenish  
 det. G. Davidse 1982

11456. Dichorisandra Commel.

- (2) Erect herb 80 cm. tall in  
 USM forest. Lvs. <sup>pale</sup> green or purplish beneath.  
 F Pedicel white. Calyx white with  
 blue tip. Petals basally white, apical  
 $\frac{3}{4}$  blue-violet. Occasional.

11457. Anthurium alienatum Schott Arac.

- F (2) Terrestrial herb 1 m. tall.  
 USM Petiole  in X-section. Pedun-  
 cle red-purple, terete. Spathe +  
 spadix yellow-green.  
 det. T. Croat 1984.

11458. Rudgea sessiliflora Standl. Rubiac.

- F (6) Treelet 2 m. tall. FRs. immature  
 USM shiny, yellow green. det. B. Boom  
 NY MO Psychothria Haemstocarpa Standl. 1986.  
 US GB det. Dwyer 1987.

11459. Psychotria capitata R. & P. subsp. capitata var. capitata Rubiac.

- F (8) Shrub 2 m. tall. Fruits  
 USM green, immature. det. P. Mateckaitis 1983  
 GB NY  
 U INPA  
 GH UB



u 11460. Elaphoglossum LINGUA (RADDI) BRACK. Fern  
 F (4) creeping fern on fallen tree trunk.  
 USM NY DET. J. MICKEL 1989

11461. Geonoma aff. interrupta (R. & P.) Mart. / Palms  
 F (2) Palm 1-2 m. tall, frequent in  
 USM understory on hillside. ~~St~~ Peduncle  
 & rachis reddish. Fls. cream. FRs.  
 still green. det. S. Glaser 1983.  
 nr. "palmichito"

11462. Psychotria erecta (Aubl.) Standl. & Steyer. Rubiac.  
 F (7) Shrub 2 m. tall. Immature  
 USM NY MO 4 fruits yellow-green. det. P. Matekaitis 1982

11463. Elaphoglossum LATIFOLIUM (Sw.) J. Sm. Fern  
 F (2) Fern growing on fallen log in  
 USM moist quebrada. DET. J. MICKEL 1989

11464. Tococa Melast.  
 (2) Shrub 1 m. tall in moist quebrada.  
 seed F Peduncle & infl. red-purple. FRs.  
 USM black at maturity.

11465. Trichomanes elegans L. R. Rich. Hymenophyll.  
 F (4) Fern on banks of moist quebrada.  
 USM KOBE K det. R. G. Stolze 1982.

DEC 17 1981

11466. Airtella racemosa Lam. var. racemosa Chrysobal.

F (5) Treelet 3 m. tall. Immature  
USM NY GB u fruits green, ca. 20 mm long.  
det. G.T. France 1982

11467. Miconia heteromera Naud. Melast.

F (6) Much branched shrub 3  
USM NY US k m tall in steep moist quebrada.  
MO Infl. axis red. FRS. green turn-  
ing black. det. Wurdack 1982.

11468. Costus guanaiensis Rusby Zingib.

(B4): Herb 2.5 m. tall in bottom  
fotos. of moist rocky ravines. Infl.  
USM arising on separate stem from  
U base with a few small leaves,  
F-2 Bracts red, appendages (exposed  
NY part) green. Ovary white. (Lipx  
K red. Corolla translucent pink.  
INPA Stem nodes rose-pink.  
n.v. "sache huira" = infl. used to  
beat breasts of young girls to make  
them ground.  
Medicinal; stem chopped and drunk  
for diabetes. Also purgative.

11469. Maieta guianensis Aublet var. guianensis Melzer +  
 F(5) Shrub 1.2 m. tall moist quebrada.  
 USM Ovary red. Petals + stamens creamy  
 US white Lvs. dark shiny green above.  
 U det. Wurdack 1982.

11470. Monotegma parvulum Loes. Morant.  
 (5) <sup>40 cm tall</sup> Herb in small clumps on forested  
 USM hillside. Lvs. dark velvety dull  
 F green above, pale green, some-  
 GB what shiny beneath. Bracts pale  
 WIN green. Fls. white. det. H. Kennedy 1982  
 NY

11471. Heliconia vellerigera Poepp. Musc.  
 (30) N.v. "cotamono situlli"  
 LYON seed USM-3 Giant herb 8'-10' tall forming  
 fls. (A) F-6 large clumps 4 m. in diameter.  
 photos DUKE-6 Petiole 1.8 m. long; lamina  
 plants K-5 2.3 m. long, narrowly ovate,  
 GB-2 Lvs. dull dark green above,  
 NY-2 shiny green or purplish beneath,  
 MO-2 in young plants dark reddish  
 reddish brown hairs, cream within. Floral  
 bracts basally rose-pink, apically  
 creamy white. Fls. lemon yellow,

lowermost  
~~distal~~  
~~proximal~~ segment recurved.  
 Fruits dark metallic blue at  
 maturity.  
 (A) DUKE

11471-A. Piper affictum Trel. Piperac.

(5) Shrub 1 m. tall in moist  
 USM F Quebrz 12. Spikes pendulous  
 NY U green. det. R. Callejas 1982.  
 K

11472. Piper Piperac  
 (1) Erect shrub 60 cm. tall. Lvs.  
 F shiny blackish green above, dull  
 red purple beneath. Spike pendulous  
 green.

11473. Geonoma aff. camana Trail Palmace  
 (3) Trunkless Palm 1.5 m. tall forming clumps  
 USM in forest. Peduncle & infl. red-  
 F-2 orange in fruit; green when in  
 flower, flowers white.  
 det. S. Glasman 1983.

11474. Geonoma aff. camana Trail Palmace  
 (2) Trunkless Delicate palm 80 cm. tall.  
 seed - Lvs. Fruiting infl. axis red-orange. Fruits  
 USM black.  
 F det. S. Glasman 1983.

DEC 17 1981

11475. Peperomia alata R. & P. det. R. Gallejas 1985. Piperac.

F (3) Succulent herb on mossy rocks,  
USM not seen on soil. Spikes pale green.

11476. Philodendron ~~deltoideum Poeppig~~ ~~Fritz-wentii~~ Bunting Arac.

live F (2) Trailing herb on fallen log in hilltop  
USM forest. Peduncle + spathe cream.

11477. Duguetia cf. floribunda Huber, D. trichostachya Annon.

(12) Tree 10 m. tall x 10 cm. DBH.

folos → u  
USM  
F-2  
u  
NY  
MO  
K-2  
INPA  
GB  
GH  
Lvs. shiny medium green on both sides, aromatic. Infl. cauliflorous, from ground level to 1.5 m. ~~at~~ above ground. Infl. branches growing downwards and entering soil, then running horizontally 1-2 meters through leaf litter, producing flowers underground and along aerial axes. ~~P~~epals dull brown.  
n.v. "espintana"

11478. Hymenophyllum polyanthes (Sw.) Sw. Hymenoph.

F (5) Moss-like creeping fern on fallen  
USM K log on ridge top. det. R. G. Stolze 1982.  
NY

GB 11479. Ocotea cujumari Martius det. H. v. d. Werff 1984.  
K Laurac.

F (11) Slender Tree 8 m. tall x 6 cm. diameter in  
USM forest on hilltop. Infl. ferruginous. Fls. cream.  
MO INPA  
NY GH

DEC 17 1981

Lvs. shiny dark green above, pale  
dull glaucous beneath,  
n.v. "moenillo"

11479A. *Jessenia weberbaueri*?

11480 *Ossaea robusta* (Triana) Cogn.

Melast.

F 13)  
USM  
US

Shrub 1.5 m. tall. Fls. buds  
greenish white. det. Wurdack 1982.

11481. *Cariniana decandra* Ducke Lecythid.

(20)

n.v. "machimango Colorado"

Valuable timber tree.

WOOD

USM

INPA

F

U

NY

G

MO

WIS

K

AAU

US

COL

GTH

S

TEX

Tree 17 m. tall x 30

diameter in ridgetop forest,

Bark rough, reddish brown,

longitudinally fissured, stringy.

Sterile.

det. G.T. Prance 1982.

See #11482.

11482. *Cariniana decandra* Ducke Lecythid.

(6)

Huge tree 28 m. tall x 60 cm

DBH with rough, reddish brown

stringy bark. Old fruits collected

from forest floor.

see #11481.

n.v. "machimango Colorado"

det. G.T. Prance 1982.

Bark.

frs. - USM

NY

F

11483. Miconia splendens (Sw.) Griseb. Melastom.  
 (9) Tree 8 m. tall x 6 cm. DBH.  
 USM INPA MO U GB Infl. axis red, immature fruits  
 F K NY yellow-orange, black at maturity,  
 shiny. det. Wurdack 1982.
11484. Psychotria boliviiana Standl. Rubiac.  
 USM (4) Shrub 3 m. tall. Frs. pale green,  
 F K NY shiny. (sensu Steyermark) det. P. Matekaitis 1983
- F MO 11485. Philodendron craspedodromum R.E. Schult. Arac.  
 USM (5) Large climbing vine 5 m. high  
 K in tree. Spathe light green.  
 det. T. Croat 1982.
11486. Aechmea Bromel.  
 (5) Epiphyte on tree limb. Lvs.  
 Fotos. grey-green. Peduncular bracts  
 USM red. Infl. axis green. Calyx bronze.  
 F-2 Fruits green.  
 US SEL
11487. Micrandra siphonoides Benth. Euphorb.  
 (4) Nv. "higrilla cespici"  
 USM tree 10 m. tall with milky  
 GH 1/2 tree - Sterile. det. M.J. Huft 1982.  
 U (see #11488)
- 11487A. Giant solitary spider.  
 F

DEC 17 1981

11488. Micrandra siphonoides Benth. Euphorb.

N.v. "higrilla cespiti"

Felled tree 12 m. tall on steep slope. FRS. brown. det. M.J. Huft 1982 (see #11487)

F (3)

USM  
GH

11489.

Fungi

(1)

F

Mushroom on humus in hillside forest. Stipe & gills lemon yellow. Pileus bright orange.

H. ELEGANS MARTIUS DET. F. SKOV & H. BALSLEV 1981

11490. Hyospathe sp. gracilis Wendl. ex Drude Palm

(25)

Slender palm to 6 m. tall

seeds - AL.F. x 2 cm. DBH growing in clumps

up to 5 stems in steep hillside forest.

Lvs. about 8. Crown shaft 30 cm.

pale green. Petiole 28 cm. long, blade

125 cm long with 25 pairs of leaflets.

Infl. solitary, 1 or 2 nodes below crown shaft.

2x green turning red-orange.

FRS. green turning shiny black.

det. J. glassman 1983.

USM-3

NY-4

F-5

foto

BH-3

U-3

K-3

11491. Asplenium serratum L.

Fern

NY

KOE

F

USM

GH-2

K

(7)

"Bird nest" rosette epiphyte on tree trunk, forming dense root ball. With 11492. det. R.G. Stolze 1982.



DEC 17 1981

11492. Vittaria lineata (L.) J.E.Sm. Fern

LP SEL 82-52 (11) Long pendulous epiphyte fern  
F live SEL growing in dense root ball with  
USM U.S. # 11491. Asplenium

K KOB  
NY U  
GH AAU  
INPA US  
Lvs. 1.5 m. long. det. R.G. Stolze 1982.

DEC 19 1981

PERU: Dept. San Martin, Prov. Moriscal  
Caceres. Distrito ~~Tocache~~ Nuevo Caserio  
Bambamarca. Rio Cañuto; "Curarelandia" (Prope-  
dad de J. Schunke v. 192.33 km. ~~from~~ from Tocache on  
road to Tumbaco.  
(475 m.) - Alt. 5200 ft. 19 Dec 1981.  
Coll. T. Plowman & J. Schunke V.

11493. Imperata contracta (HBK.) Hitchc. Gramin.

F (9) Erect clump forming grass forming  
USM NY pure stands in low wet open places,  
MO U  
ISC GH Spiked in fruit whitish. det. Davidse  
LP n.v. "Cáshu Uasha" 1982  
US rhizome is considered epiphytic.  
mixed with sward.

11494. Selaginella exaltatum (Kze) Spring. Selaginell.

F (4) Sprawling vine forming impene-  
USM trable thickets in secondary forest.  
KOB n.v. "Shapumba" (?) = Pteridium?  
AAU det. R.G. Stolze 1987.

11495. Cyphomandra TENUISETOSA BITTER Solanec. DET. L. BOHS 1986

F (3) Shrub 1.5 m. tall in open cut-  
USM K over thicket. Fls. pendulous  
GH

Petals light violet with white margin, Lvs. shiny dark green above, somewhat shiny lighter green beneath.  
n.v. "Chup~~o~~ Sacha silvestre"

11496. Piper hispidum Swartz Piperac.  
(3) n.v. "motico" = used for infections, kidneys, fungus, etc.  
F USM NY Weedy shrub 2-5 m. tall. Spikes straight, erect, cream turning olive green.  
det. R. College 1983.

11497. Capsicum chinense Jacq. Solanac.  
(6) n.v. "pucunucha" det. W.H. Eshbaugh 1982.  
F USM RNC MU MO Cult. shrub 2 m. tall. Petals cream. Anthers bluish. FRs. pendulous, yellow-orange, very pizante. Calyx constricted just below lobes. Along with "rocoto" pepper, said to be the only aji not injurious to the body.

- 11498 Conoclea scoparioides (C. & S.) Benth. Scroph.  
F USM (3) Weedy herb in houseyard.  
Fls. white.

11499. Fevillea cordifolia L. Cucurb.  
(5) n.v. "haviillo" det. C. Jeffrey 1983.  
sep. fruit USM F Herbaceous vine in thicket. FRs. sub globose, 9 cm long, 10 cm in

diameter.

use: oil of seed used as candle and to make soap. Juice of stem taken for drunkenness.

11500. Peperomia rhombica R. & P. Piperaceae

(3) Succulent epiphytic herb on fallen  
live USM tree trunk in forest clearing. Spikes  
A.F. F pale brown. det. R. Cellegas 1982  
NY

11501. Oxalis ortgiesii Regel Oxalid.

(3) Herb in forest. Lvs. shiny dark  
USM green above, red purple beneath.  
F Stem + peduncle red purple.  
P Fls. pale yellow.

11502. Schoenobiblus daphnoides Mart. Thymelaeaceae

F (2) Shrub 80 cm. tall. Fls. pale  
USM yellow, not fragrant in evening.  
h.v. "jáque" det. P. Mutekatis 1982.

VAR. RACEMOSA (MART.) SMITH & FERNANDEZ

11503. Leonia glycyarpa Ruiz & Pavon Violac.

(1) Shrub 2.5 m. tall. Immature fruit  
F light green. DET. W.A. HECKING 1995  
h.v. "sahino runtillo"

DEC 19 1981

*Psychotria mathewsii* Standl. det. J. Kirbride

11504. *Psychotria ramiflora* Rusby Rubiac.

F (7) Treelet 3 m. tall Immature  
USM fruits green, shiny. Stipules  
NY GB creamy white, 5.5 cm. long,  
US early caducous.  
MIA

11505. *Drymonia pendula* (Poepp.) Wiehl. Gesner.

(7) Herbaceous vine among shrubs  
USM K in forest clearing, to 5 m. Peduncle  
F U bracts + pedicel dark red-purple.  
US SEL Infl. long pendulous.  
NY NY  
det. L. Skogl 1985.

11506. *Capparis sola* Macbride Capparac.

F (8) Treelet 3 m. tall in small forest  
USM K clearing. Fruits long pendulous,  
WIS MO shiny, dark red-purple, white  
NY U within, seeds light brown.  
INPA  
det. H. Ilitis 1982.

11507. *CALYPTRANTHES* Hydrac.

F (2) Shrub 1.5 m. tall in forest.  
USM Immature fruits carmine pink.  
Very aromatic. DET. B. HOLST 1989

*Tontelea chlorantha* A.C. Smith

U 11508. ~~Hippocratea~~ det. A.M.W. Mennega 1982. Hippocrat.  
(10) K Liana 6 m. tall growing on tree  
INPA trunk. Fls. very pale greenish yellow.  
MO GB  
USM n.v. "murcuhuasca" 1<sup>ST</sup> PERU RECORD  
U F US

DEC 19 1981

→ Solanum q. anceps R. + P. det. J. Knapp 1985. Solanac.

11509. Solanum confine Dunal

F (7)  
USM  
MO  
BH  
NY  
LI  
CORD

Erect herb to 80 cm. tall in forest. Fls. nodding; pedicel, calyx and corolla pale green. Anthers pale yellow. det. M. Nee 1982.

11510. Solanum OPPOSITIFOLIUM R. + P. Solanac.

(3)  
USM  
F  
MO

Shrub 1 m. tall in forest. Immature fruits green. Lvs. shiny dark green above with undulate margins. DET. S. KNAPP 1989

11511. Psychotria stenostachya Standl. Rubiac.

F (3)  
USM  
G

Shrub 1 m. tall in forest. Peduncle pale green. Ovary pale green. Calyx cream. ~~Fls. Petal~~ Corolla white. det. P. Matekaitis 1983

11512. Hylaezanthus unilateralis (P. + E.) J. + J. Marantac.

(5)

(A) infl.

USM  
GB  
F  
NY  
K

Herb 60 cm. tall in low-forest. lf. dark green above with distinct sheen; pale green, slightly shiny <sup>below</sup>. Flowering branches ca-3/plant with 2-3 infl. per branch. Bracts dorsally light green ventrally creamy white translucent. Calyx + corolla translucent white. Stamens pale yellow apically. det. T.P.

DEC 19 1981

11513. Jacaranda glabra (DC.) Bm. + K. Schum. Bignon.  
(3+3) Unbranched fast-growing treelet  
F-2 4 m. tall in open secondary thicket.  
Mo-2  
wood  
USM  
Inflorescences cauliflorous,  
light green. FRS. 14 cm long x 5 cm wide.  
n.v. "Soliman Sacha"  
det. A. Gentry, 1982.

11514. Justicia ~~Acanth.~~  
F (3) Herb in forest floor. Lvs. dark green  
USM above with central silver stripes,  
US red-purple beneath. FRS. brown.

11515. Strychnos tarapotensis Loganiac.  
F (3) Treelet 4 m. tall. FRS globose,  
USM orange, 2 cm. diameter. Trunk  
NY spinose. Lvs. undulate at margin.  
n.v. "sacha chija"

11516. Ctenanthe sp. nov. Merantiac.  
(2) Herb 1.2 m. tall growing in  
USM clumps in low lying forest. Lvs. shiny  
dark green above, duller lighter green  
beneath. Petiole shiny green, pubescent  
olive green. Infl. peduncle and exis  
green, insertion of bracts, dark red,  
bracts green. Calyx + corolla white.  
Staminodes tipped blue-violet.  
det. L.  
Anderson  
1982.

DEC 19 1981

(Mog.) H. Walt.

11517. Trichostigma peruvianum Phytolacc.  
(2)  
USM Subshrub 40 cm. tall in forest.  
F Fls. pale green.

11518. Bunchosia

Malpigh.

- F (3) Treelet 4 m. tall with few branches.  
USM forming pseudo rosette; fruits produced at center of rosette at base of major branches; light red-orange.

11519. Jurussia

Acanth.

- F (3) Herb 30 cm. tall in forest floor.  
USM Lvs. dark shiny green above, dark  
US red purple beneath. Bracts pale green. No flowers. det. D. Wasshausen 1982.

11520. Palicourea macrobotrys (R. & P.) R. & S. Rubiac.

- F (7) Shrub 2.5-3 m. tall in forest under-  
USM story. Infl. exis + pedicels red.  
K Ovary pale green. Corolla light yellow.  
NY Fks. black. det. P. Matekaitis 1982  
MO  
U

11521. Bunchosia

Malpigh.

- F (5) Tree 6 m. tall x 5 cm. DBH.  
USM Fks. light red-orange. Lvs. lightly  
MICH undulate.  
MO  
K

DEC 19 1981

11522. Fittonia verschaffeltii var. verschaffeltii Acanth.

(4)

Creeping herb with leaves prostrate on forest floor, dark green with light red veins.

F foto  
USM K  
US

Bracts pale green. Fls. pale yellow.

Det. D. Wasshausen 1982.

11523. Cepicium sp. nov. det Eschbaugh 1982 Solanec.

(15)

seed: RAGT  
MU

F  
USM U  
RNG US  
MU GB  
CORD G  
MO GH  
NY P  
IND

Sprawling herbaceous vine 2 m. tall among shrubs at edge of small clearing in forest.

Fls. nodding, Petals creamy white, anthers light brown. FRS. globose, red at maturity, very pungent. n.v. "chintillo"

11524. Drymonia COCCINEA (AUBL.) WIEHLE & Gentry

(5+3)

Climbing herbaceous vine 4 m. tall on tree trunk. Fls.

F foto  
USM  
US  
SEL  
K

cauliflorous. <sup>outer</sup> bracts light red. Inner bracts white, exposed part only red. Calyx creamy <sup>white</sup> yellow. Corolla pale yellow, lower 3 lobes with dark red-brown spots; Infl. with abundant mucilage.

DET. L. E. SkoG (US) 1997



11525. Oxalis ortgiesii Regel Oxalidac.

(5) Herb in edge of clearing. Stems succulent,  
 dark red. Lvs. dark green above, pale green  
 beneath - Fls. yellow.  
 photo  
 USM  
 F

11526. Biophytum soukupii Lourt. Oxalidac.

(2) Herb in forest. Lfs. dark green with <sup>transverse</sup> silvery  
 band at base. Fls. white. det. P. Matekaitis 1983  
 seed  
 USM  
 F

11527. Psychotria santaremica M. Arg. Rubiac.

(3) Shrub 1.5 m. tall in forest. Bracts  
 light green. Corolla white.  
 det. P. Matekaitis 1983  
 USM  
 F

11528. Palicourea Rudgei verticellata (R. + P.) Standl. Rubiac.

(5) Shrub 3 m. tall in forest. Lvs. shiny  
 dark green above, shiny light green be-  
 neath. Infl. <sup>axis</sup> pale green. Young fruits  
 dull orange. det. B. Boom 1986.  
 USM  
 F  
 NY  
 US

11529. Palicourea subspicata Huber Rubiac.

(4) Unbranched subshrub in forest.  
 Lvs. <sup>shiny</sup> metallic grey-green above with  
 yellow green midrib; light green beneath.  
 Peduncle dark red-purple. Infl. axis  
 and pedicels bright red. Young fruits  
 yellow green; calyx remnant dark red.  
 USM  
 F  
 R  
 NY

DEC 19 1981

- F 11530. Pharus latifolius L. Gram.  
USM (5) Herb in forest. Infl. 2x in green.  
ISC MO Spikelets dark brown, barbed for zoochory.  
K det. R.W. Poelt 1983.
11531. Chamaedorea PINNATIFRONS (Jacq.) BERT. Palmar.  
F (3) Solitary, single trunked palm 2.8 m. tall in understory.  
USM Peduncle and infl. 2x in and unripe  
seed: Lyon fruits bright orange. Mature fruits  
shiny black. det. G. G. Nevers 1986.  
DET. D. Hodel 1990
- F 11532. Trichilia pallida Sw. Meliac.  
USM (6) ~~Shrub~~ 2 m. tall. FRs. greenish yellow.  
NY INPA U det. T. Plowman 1984
11533. Stenostephanus thyrsoides Lindau Acanth.  
F (3) Shrub to 1 m. tall in flat woods.  
USM FRs. dark brown. det. D. Watschhausen 1982.  
US
11534. Drymonia Gesner.  
(2) Herbaceous vine forest clearing.  
seed Calyx pale green. Corolla succulent,  
USM cream, dark red within. Lvs. fleshy  
F
11535. Piper arboreum Aubl. Piperac.  
F (4) Tree 5 m. tall with several  
USM trunks. Peduncles green. Spikes erect  
K pale green. det. R. Callejas 1982.  
NY

DEC 19 1981

det Croat 1982.

11536. Dracopis lorentense Krause Arac.

(4+4) <sup>gigantic</sup> tuberiferous herb 6 m. tall in  
USM disturbed primary forest. Petiole  
F-2 6 cm. diameter, with snake-like  
M0-2 mottled pattern dark brown + white.  
K with numerous spiny excrescences.  
SEL Peduncle 80 cm. tall, dark brown.  
Spadix in fruit 20 cm. long x  
8 cm. diameter. Axis pale orange.  
Seeds orange, germinating in situ.  
n.v. Jergon Sacha

11537. Dieffenbachia

Arac.

(3) Erect slender herb. Stems dark  
USM green with caustic milky sap, ~~no~~ odor of  
F "Zorrillo" (skunk). Spathe dark green.  
K young fruits green. Infl. containing much liquid,  
slender small white larvae. n.v. "patquins negro"

11538. Cyclopeltis semicordata (Sw.) J. Sm.

Fern

(4) Terrestrial <sup>Solitary</sup> rosette fern 1 m.  
USM tall.  
GH  
F-2 u  
det. R.G. Stolze 1982.


11539. Geonoma brongniartii Mart.

Palmae

(4) Trunkless Solitary palm 1 m.  
USM tall. Infl. axis green turning orange  
F in fruit. Frs. shiny black.  
NY n.v. "culluli"

det. A. Henderson 1983.

11540. Anthurium alienatum Schott Arac.

(3) <sup>LYON</sup> <sup>SEL</sup> 82-56 Terrestrial herb 60 cm. tall in live forest. Cataphylls purplish brown. Petiole  in section. Lvs. dark shiny green above, dull pale green beneath. Peduncle terete, light green. Spathe erect to diverging, light green. Spadix light green, anthers yellowish.  
det. T. Croat 1982.

11541. Ixora peruviana (Spruce) Standley Rubiac.

(12) Tree 8 m. tall in forest. ~~Tree~~  
Immature fruits red, mature fruits shiny black.  
nv. "cangrejo micuna"

seed - Penny M.  
USM INPA  
COL F 115  
G GH U  
MO K  
NY GB  
P

11542. Renealmia brevicaulis Poepp. + Endl. Zingib.

(4) Aromatic herb to 1 m. tall.

USM. Peduncle pale green. Bracts olive green.  
F Colyx in fruit pale orange. Immature  
U fruits light green.  
INPA nv. "miskipanga" det. T. Plowman 1981.

11543. Zamia lindenii Regel ex André Zamiac.(7) Cycad 2.8 m. tall in <sup>low</sup> flat

USM K forest. ~~Trunk~~ pale brown to 30  
F-3 MO GB cm. tall. Petiole 70 cm. long,  
blade 1.50 m. long, with 25 leaflets  
per side. Sterile. nv. "sacha piña"

DEC 19 1981

det. B. Alverson 1985.

11544. Quararibea oblongifolia Poepp. + Endl. Bombac.

(8) Tree 8 m. tall x 6 cm. DBH.

FRS. cauliflorous on the branches,  
obovoid, 4 cm. long x 4.5 cm. diam-  
eter, orange at maturity, 5 seeded.  
n.v. "sapotillo"

seeds. Lyon  
F  
Wis  
BR  
NY  
K  
MO

11545. Heliconia spathicircinata Aristeguieta Musac.

(10)  
USM  
F-3  
GB

Herb 1.5 m. tall in forest clearing.  
Lvs. <sup>very</sup> dark velvety dull green above,  
light shiny green beneath. Infl.  
erect, peduncle purplish brown.  
Branch bracts spiralled, bright red,  
recurved apically. Floral bracts, pedicel  
ovary and perianth golden yellow.

11546. Clavijsa POEPPIGII MEZ Theophrast

(4)

USM  
F  
GB

DET. B. STAHL 1988  
Unbranched shrub 1-2.5 m. tall.  
Lvs. stored in rosettes ascending.  
FRS. crowded among leaf bases,  
green, orange at maturity, shiny, to 22 mm. diam.  
Lvs. dark green above, lighter green  
beneath, bullate, shiny both sides

11547. Clavijsa WEBERBAUERI MEZ Theophrast

(2)

seeds = Lyon  
USM  
E

DET. B. STAHL 1989  
Unbranched shrub 60 cm. tall.  
Lvs. dull medium green above, dull  
pale green beneath, slightly bullate.  
FRS. orange, to 13 mm. diameter, 4 seeded.

11548. Posoqueria longiflora Aubl. Rubiac.

(12) Tree 8 m. tall x 6 cm. DBH.

Immature frs. shiny, pale green, ellipsoid,

photo USM<sub>us</sub> to 5.5 cm long x 3.5 cm. in dia -GH F INPA  
P K COL  
MO GB  
NY U  
meter. Aril around seeds pale orang.  
det. P. Matekaitis 198211549. Anthurium croatii Madison Arac.

(4) Terrestrial herb 1.3 m. tall.

USM F in forest. Petiole glabrous green.

K Peduncle reddish brown, terete  
MO Spathe erect, coriaceous, light  
green. Spadix bluish green.  
det. T. Croat 1982.11549A. Genipa americana

Rubiace.

Chr. Bot. Gard. Fruit on ground.  
Seed only.

11549B. Lard snail (on 11537 -

(1) Doffenbachia?)

F

to her: 2454 total dup.



# Libby's

Encephalant.	1	$\frac{1}{60}$	f 3.5	<del>14</del>		
Bla	2	$\frac{1}{60}$	f 8	28	E. pulchra 10173	$\frac{1}{60}$ F11
	3	$\frac{1}{60}$	f. 56 Rub.	29	"	f 11
Phyllo-gioidi	4	$\frac{1}{125}$	f 16 - M 1.2 m	30	"	f 8
	5	$\frac{1}{125}$	f 11 purple 1.2 m	31	"	f 5.6
"	6	"	" " "	32	"	"
"	7	$\frac{1}{125}$	f 8 purple 1.2 m	33	"	$\frac{1}{60}$ "
delic	8	"	f 11 purple .7 m	34	Magnol. 10101	" 5.2
"	9	"	f 8 " .7 m	35	"	" 5.6
gulls	10	$\frac{1}{125}$	f 22	36	"	" 5.6
	11	"				
	12	"				
	13	"				
	14	$\frac{1}{125}$	f 11			
	15	"	f 8			
	16	"	f 8			
Bromeliad	17	$\frac{1}{60}$	f 8			
caapi	18	$\frac{1}{125}$	f 16 (M)			
"	19	$\frac{1}{125}$	f 22 (M)			
Bromeliad	20	$\frac{1}{125}$	f 16 (M)			
X Tacta	21	$\frac{1}{125}$	f 11 (M)			
Emaguel 10101	22	$\frac{1}{125}$	f 16 (M)			
"	23	"	f 22 (M)			
"	24	"	f 32 (M) close			
+ cucum 10174	25	"	f 11 M .65 m			
"	26	"	f 16 M .65			
"	27	"	f 22 " .65			



